

# Women's and Children's Health

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# Current General MCH Priorities

- Teen pregnancy/family planning
- Infant mortality
- Obesity/overweight
- Injury prevention
- Oral health
- Prenatal care
- Mental health

# Health Indicators





Indicators for three populations:

- 1) Children and Adolescents
- 2) Pregnant women and infants
- 3) Women of Reproductive Age (15-44 Years)









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## Child & Adolescent Health Status, Well-Being and Protective Factors

<i>Indicators include:</i>	Estimate	Comparison / AZ Trend
<b>2-4 years with untreated tooth decay (2009)</b>	<b>31.0%</b>	<b>16.0% (U.S.)</b>
<b>3<sup>rd</sup> grade students with untreated tooth decay (2009)</b>	<b>41.0%</b>	<b>29.0% (U.S.)</b>
<b>0-17 year old without health insurance (2008)</b>	<b>16.0%</b>	<b>9.9% (U.S.)</b>  <b>(2003-2008)</b>
<b>19-35 month old children with 4:3:1:3:3 vaccines (2007)</b>	<b>79.2%</b>	<b>78.2% (U.S.)</b>  <b>(2004-2008)</b>
<b>2 to &lt;5 year old low income children who are obese (2008)</b>	<b>14.6%</b>	<b>14.9% (U.S.)</b>  <b>(2003-2008)</b>
<b>0-17 year old preventable deaths (2008)</b>	<b>33.0%</b>	 <b>(2006-2008)</b>








## Child & Adolescent Health Status, Well-Being and Protective Factors

<i>Indicators include:</i>	Estimate	Comparison / AZ Trend
<b>15-19 year old teen pregnancy (2008)</b>	<b>63.2 per 1,000</b>	 <b>(1999-2008)</b>
<b>15-19 year old teen births (2008)</b>	<b>54.9 per 1,000</b>	<b>42.5 (U.S.)</b>  <b>(1999-2008)</b>
<b>15-17 year old teen births w/1<sup>st</sup> trimester PNC (2008)</b>	<b>63.5%</b>	<b>90.0% (U.S.)</b>  <b>(2003-2008)</b>
<b>18-19 year old teen births w/1<sup>st</sup> trimester PNC (2008)</b>	<b>69.7%</b>	<b>90.0% (U.S.)</b>  <b>(2003-2008)</b>
<b>15-19 year old teen births w/ one or more medical risk factors (2008)</b>	<b>34.6%</b>	 <b>(2003-2008)</b>
<b>High school students who are overweight or obese (2007)</b>	<b>25.9%</b>	<b>28.8% (U.S.)</b>  <b>(2003-2007)</b>
<b>High school students who seriously considered attempting suicide (2007)</b>	<b>16.1%</b>	<b>14.5% (U.S.)</b>  <b>(2003-2007)</b>
<b>High school students who currently smoke tobacco (2007)</b>	<b>22.2%</b>	<b>20.0% (U.S.)</b>  <b>(2003-2007)</b>









## Pregnant Women and Infant Health Status, Well-Being and Protective Factors

<i>Indicators include:</i>	Estimate	Comparison / AZ Trend
<b>1<sup>st</sup> trimester prenatal care (2008)</b>	<b>79.4%</b>	<b>84.0% (U.S.)</b>  <b>(2003-2008)</b>
<b>Preterm births (&lt;37 weeks gestation) using clinical estimate of gestation (2008)</b>	<b>10.2%</b>	<b>7.6% (HP 2010)</b>  <b>(1999-2008)</b>
<b>Low birth weight (&lt;2,500 grams) infant (2008)</b>	<b>7.1%</b>	<b>8.3% (U.S.)</b>  <b>(1999-2008)</b>
<b>Stillbirth rate (&gt;20 weeks gestation) (2008)</b>	<b>5.5 per, 1,000</b>	<b>6.2 (U.S.)</b>  <b>(2003-2008)</b>
<b>Perinatal mortality rate (28 weeks gestation to &lt; 7 days age) (2008)</b>	<b>6.3 per 1,000</b>	<b>6.6 (U.S.)</b>  <b>(1999-2008)</b>
<b>Infant mortality rate (2008)</b>	<b>6.3 per 1,000</b>	<b>6.5 (U.S.)</b>  <b>(1999-2008)</b>

## Pregnant Women and Infant Health Status, Well-Being and Protective Factors

<i>Indicators include:</i>	Estimate	Comparison / AZ Trend
<b>SIDS rate (2008)</b>	<b>4.0 per 10,000</b>	<b>5.1 (U.S.)</b>  <b>(1999-2008)</b>
<b>Women who reported smoking during pregnancy (2008)</b>	<b>4.8%</b>	<b>1.0% (HP 2010)</b>  <b>(1999-2008)</b>
<b>Women age 20-34 years with one or more medical risk factors (2008)</b>	<b>30.3%</b>	 <b>(2003-2008)</b>
<b>Primary cesarean section for singleton deliveries at term (37-41 weeks) (2008)</b>	<b>21.7%</b>	<b>15.0% (HP 2010)</b>  <b>(1999-2008)</b>
<b>Macrosomic infant (&gt;4,000 grams) (2008)</b>	<b>7.3%</b>	 <b>(2003-2008)</b>
<b>Maternal mortality rate (&lt; =42 days postpartum) (2008)</b>	<b>10.1 per 100,000</b>	<b>3.3 (HP 2010)</b>  <b>(2000-2008)</b>
<b>Any breastfeeding at 6 months postpartum (2008)</b>	<b>45.3%</b>	<b>43.4% (U.S.)</b>  <b>(2005-2008)</b>

## Women of Reproductive Age Health Status, Well-Being, Protective Factors

<i>Indicators include:</i>	Estimate	Comparison / AZ Trend
<b>Obesity women 18-44 years (2008)</b>	<b>22.3%</b>	15.0% (HP 2010)  <b>(2000-2008)</b>
<b>Take folic acid supplement or vitamin women 18-44 years (2007)</b>	<b>50.2%</b>	80.0% (HP 2010)  <b>(2004-2007)</b>
<b>Eat “5-a-day” vegetables and fruit women 18-44 years (2008)</b>	<b>25.5%</b>	50.0% (HP 2010)  <b>(2003-2008)</b>
<b>Get recommended physical activity per week women 18-44 years (2008)</b>	<b>58.1%</b>	50.0% (HP 2010)  <b>(2003-2008)</b>
<b>Report frequent mental distress women 18-44 years (2008)</b>	<b>19.8%</b>	12.0% (U.S.)  <b>(2003-2008)</b>
<b>Chlamydia incidence women 15-24 years (2008)</b>	<b>3010 per 100,000</b>	1650 (HP 2010)  <b>(1999-2008)</b>
<b>Gonorrhea incidence women 15-24 years (2008)</b>	<b>235.1 per 100,000</b>	270 (HP 2010)  <b>(1999-2008)</b>
<b>Forcible rape incidence (2008)</b>	<b>25.7 per 100,000</b>	29.3 (U.S.)  <b>(2003-2008)</b>



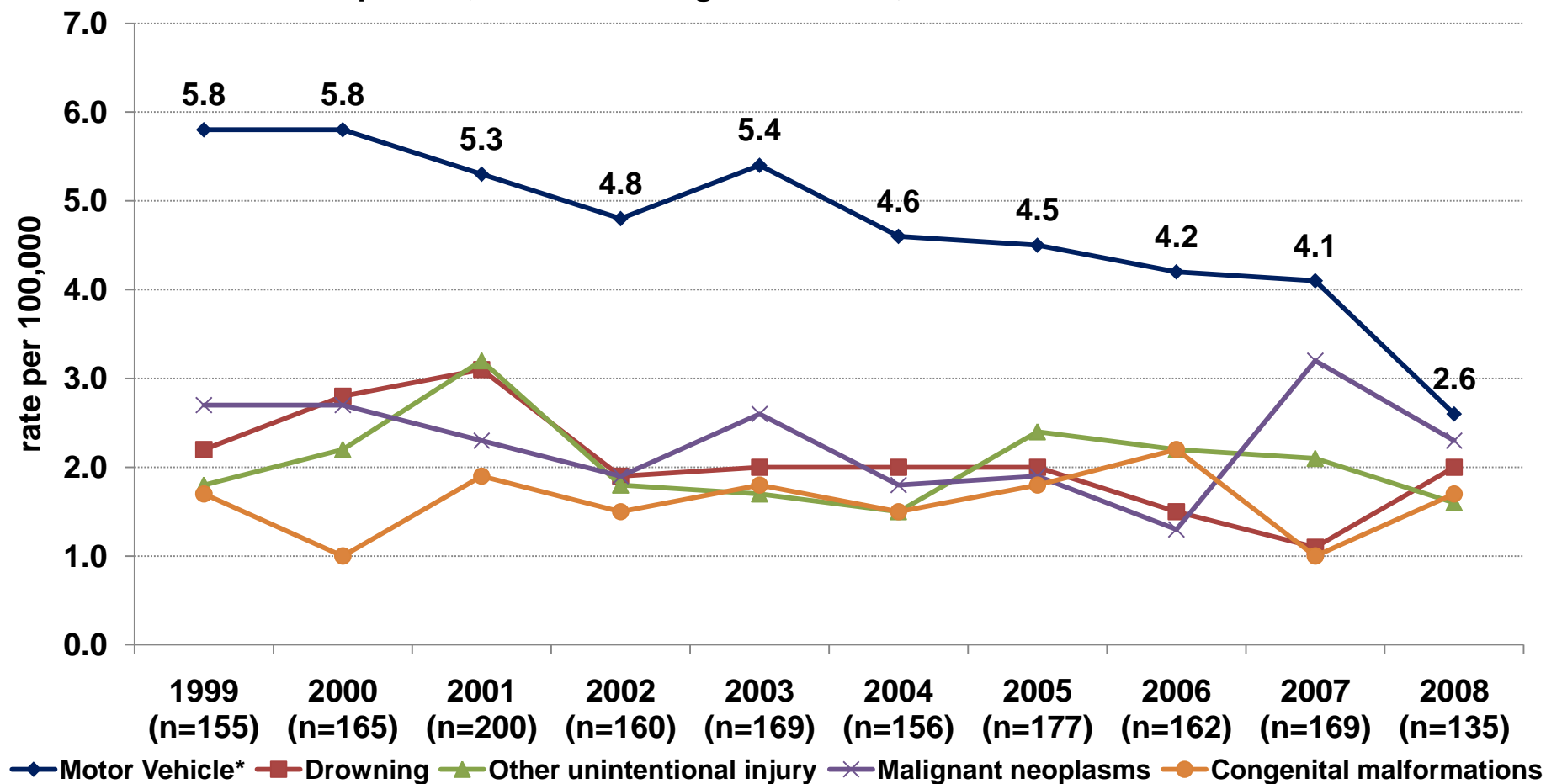
# Children and Adolescents

## *Health Status and Well-Being Indicators*

### *Examples:*

- Mortality and injury
- Mental health
- Oral health
- Chronic Disease

# Mortality Rates for Leading Causes of Death per 100,000 Children Age 1-14 Years, Arizona 1999-2008



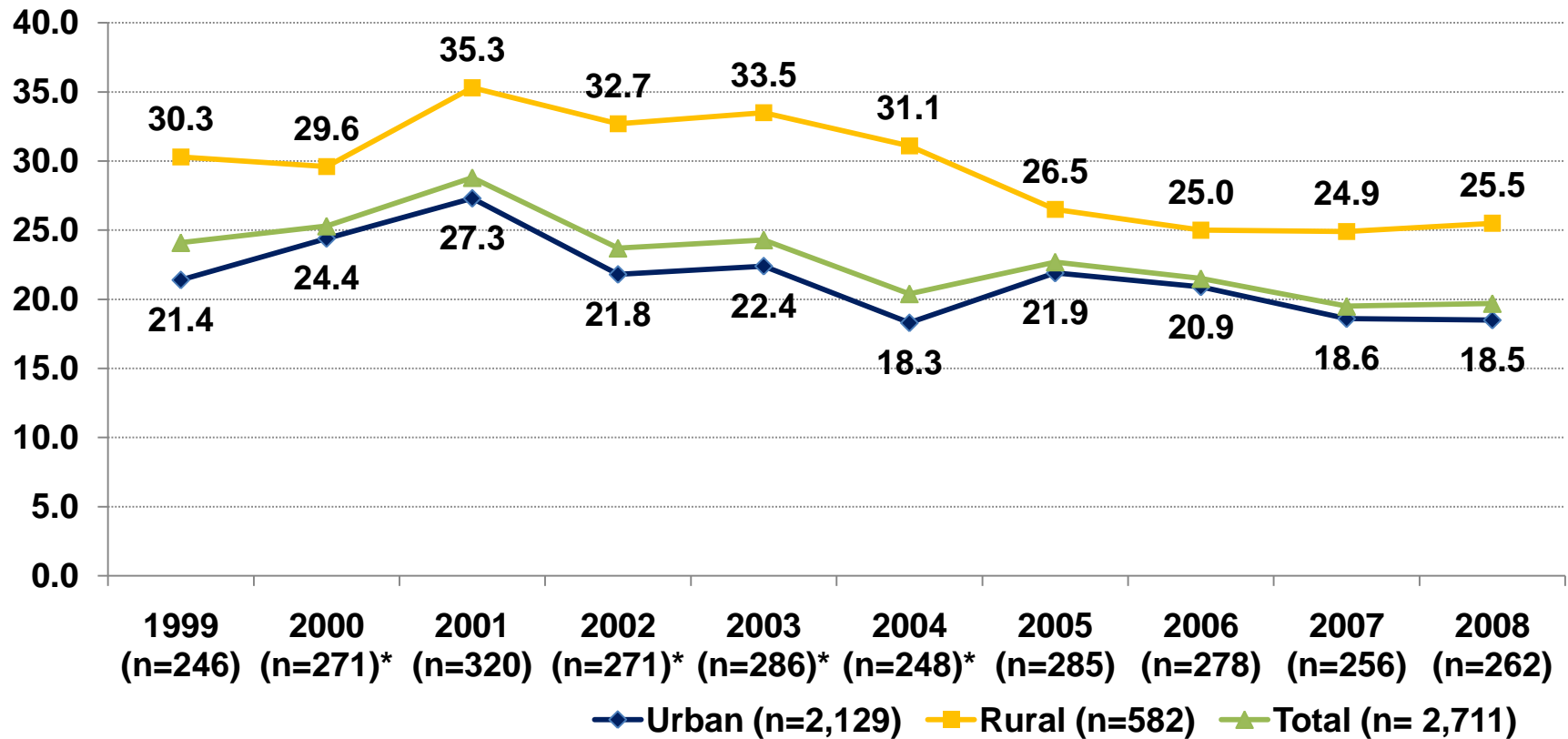
\*significant difference between 1999 and 2008 at  $\alpha=0.05$

Source: Arizona Vital Statistics, 1999-2008

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# Mortality Rate for All Deaths per 100,000 Children Age 1-14 Years by Area of Residence, Arizona 1999-2008



\*significant difference between the urban and rural rates at  $\alpha=0.05$

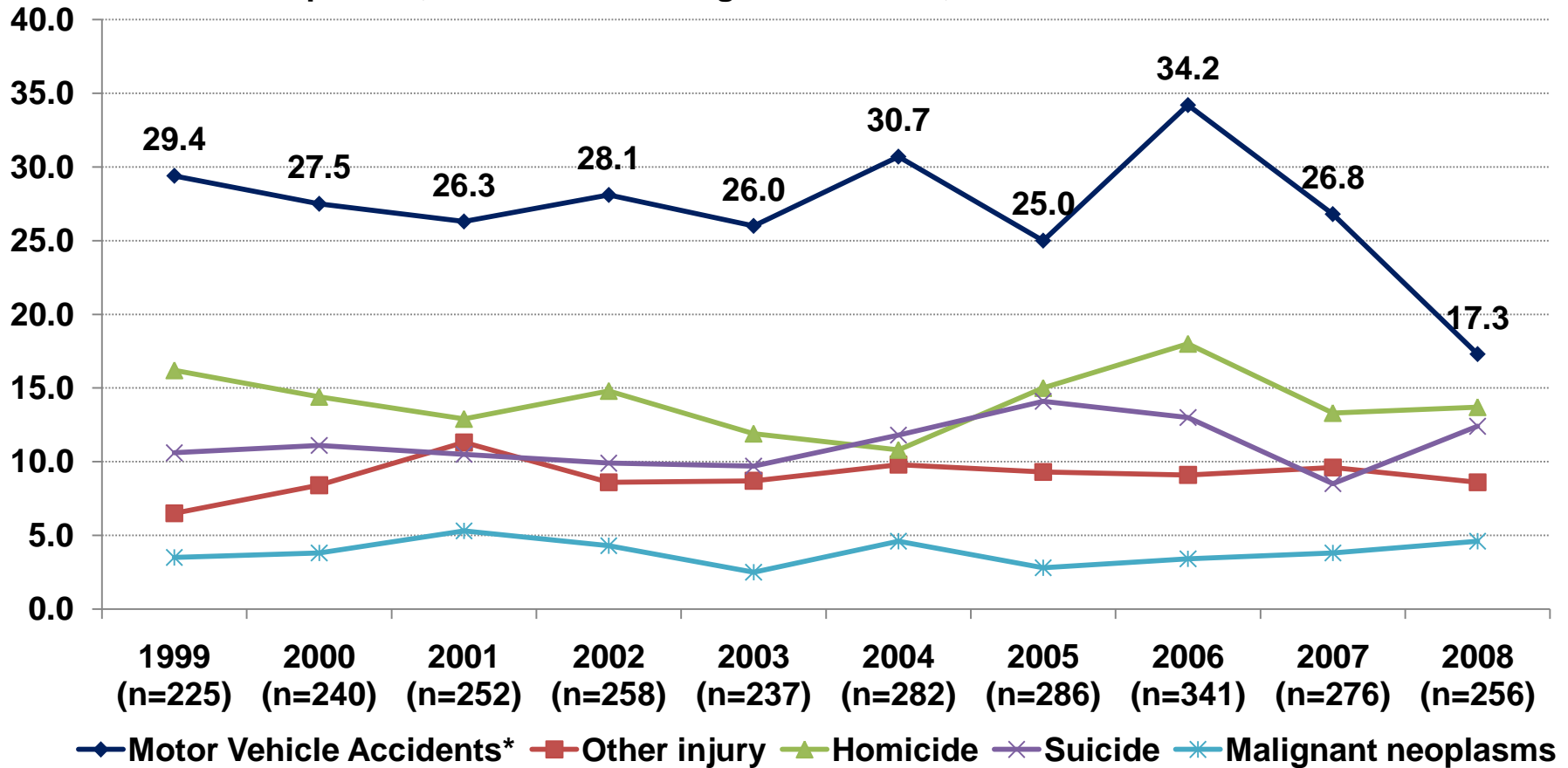
Urban areas are; Maricopa, Pima, Pinal, and Yuma Counties. All other counties are considered rural.

Source: Arizona Vital Statistics, 1999-2008

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# Mortality Rates for Leading Causes of Death per 100,000 Adolescents Age 15-19 Years, Arizona 1999-2008



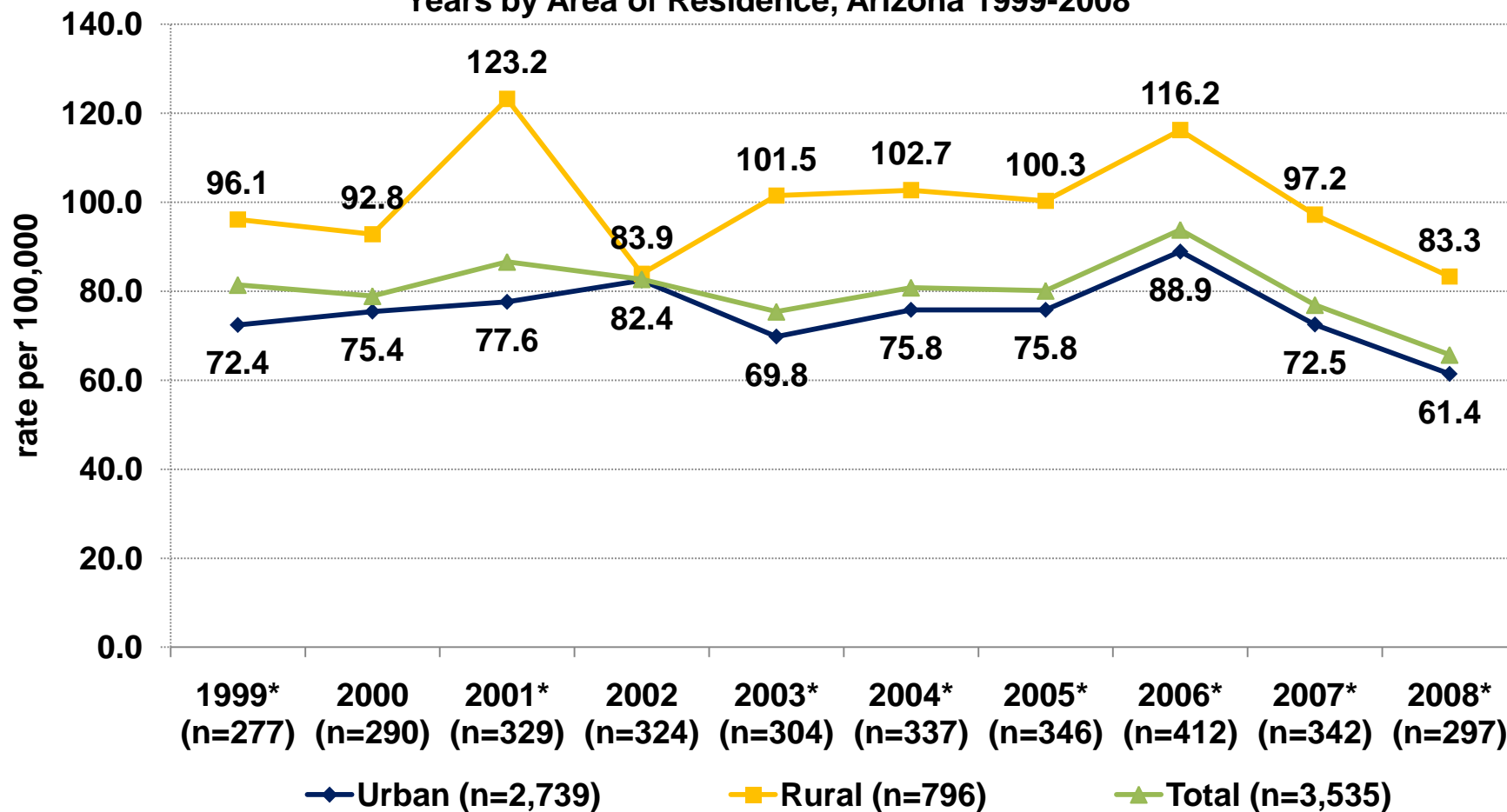
\*significant difference between 1999 and 2008 rates at  $\alpha=0.05$

Source: Arizona Vital Statistics, 1999-2007

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# Mortality Rates for All Causes of Death per 100,000 Adolescents Age 15-19 Years by Area of Residence, Arizona 1999-2008

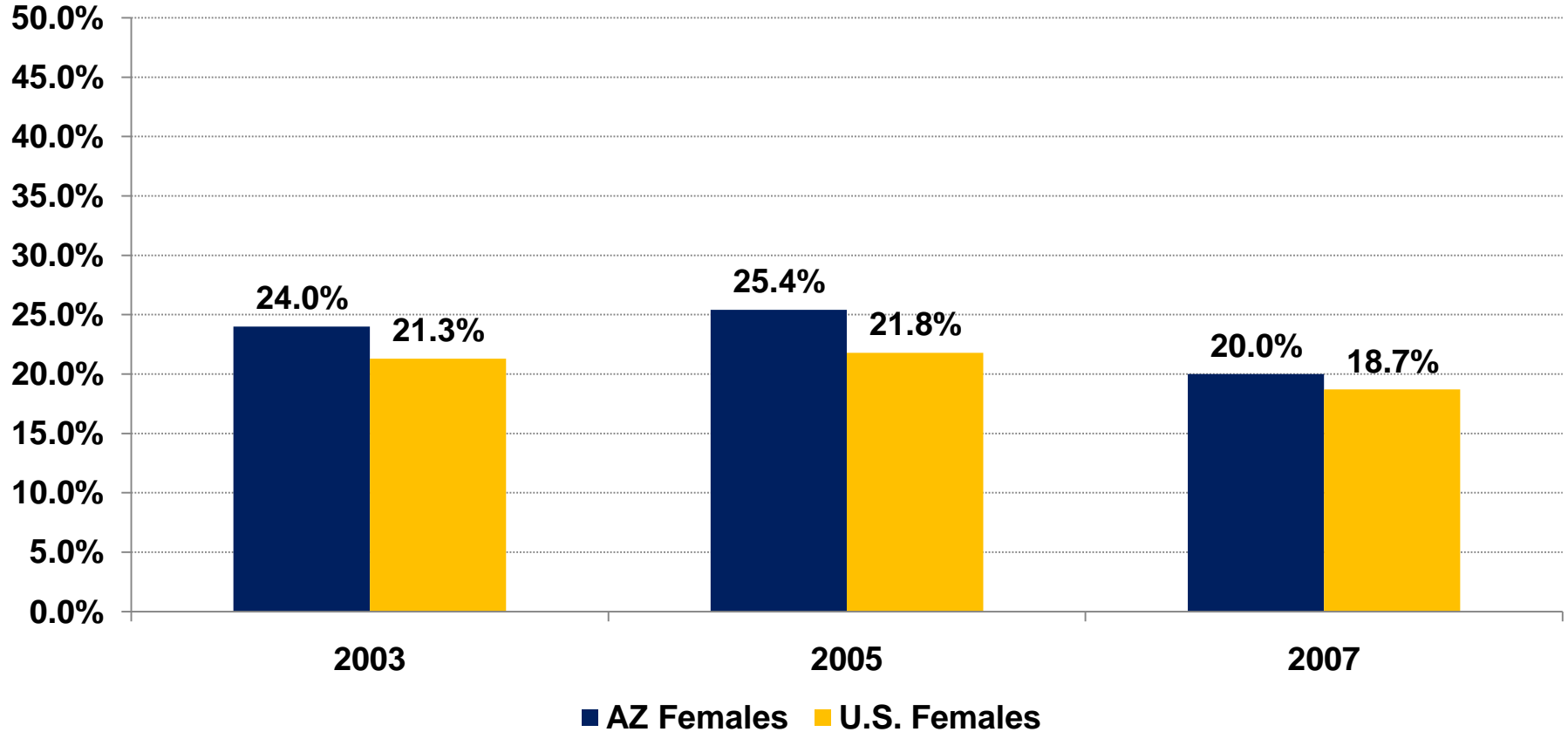


\* significant difference in mortality rates between urban and rural residents at  $\alpha=0.05$   
Source: Arizona Vital Statistics, 1999-2008

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## Female High School Students Reporting Seriously Considered Attempting Suicide, Arizona 2003, 2005, 2007

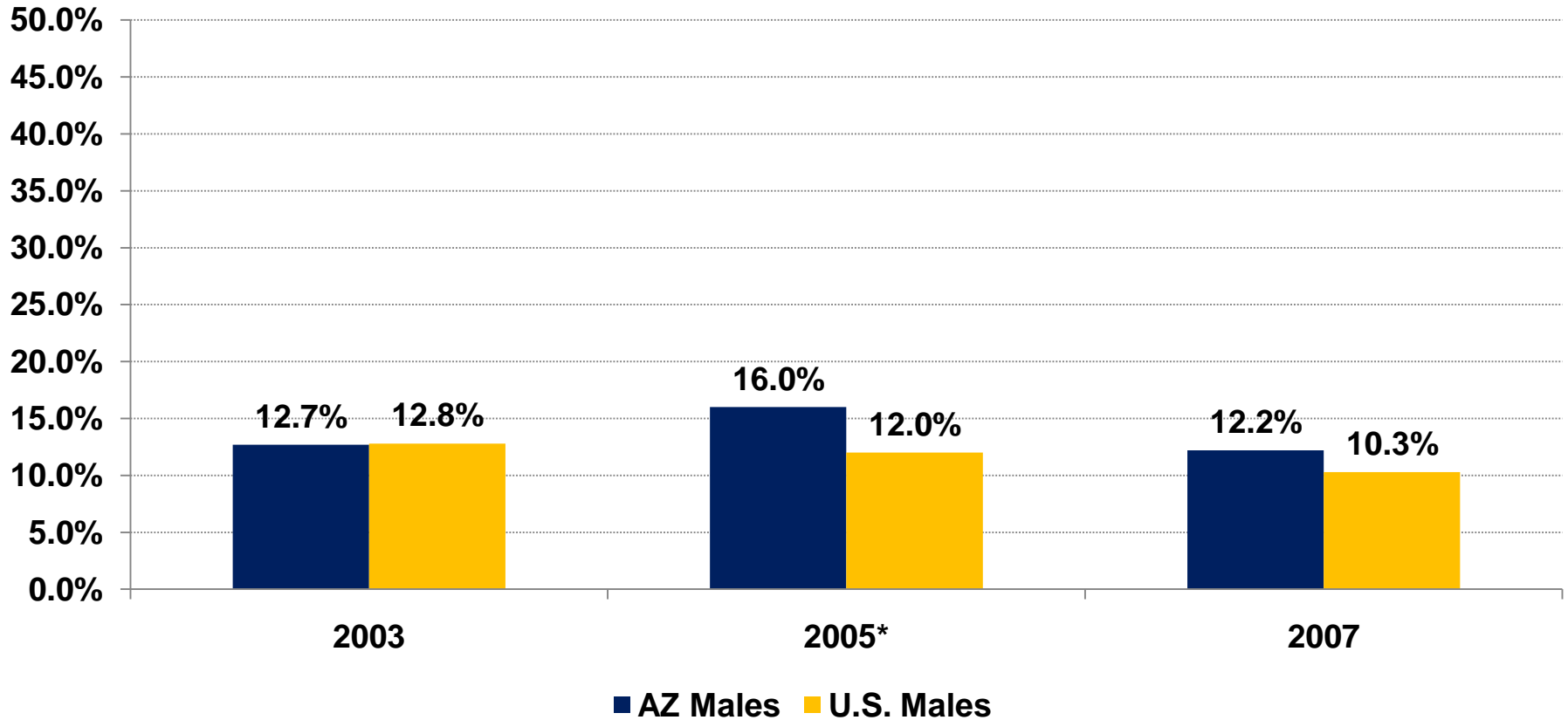


Source: Youth Risk Behavior Survey, 2003, 2005, 2007

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## Male High School Students Reporting Seriously Considered Attempting Suicide Arizona & U.S. 2003, 2005, 2008

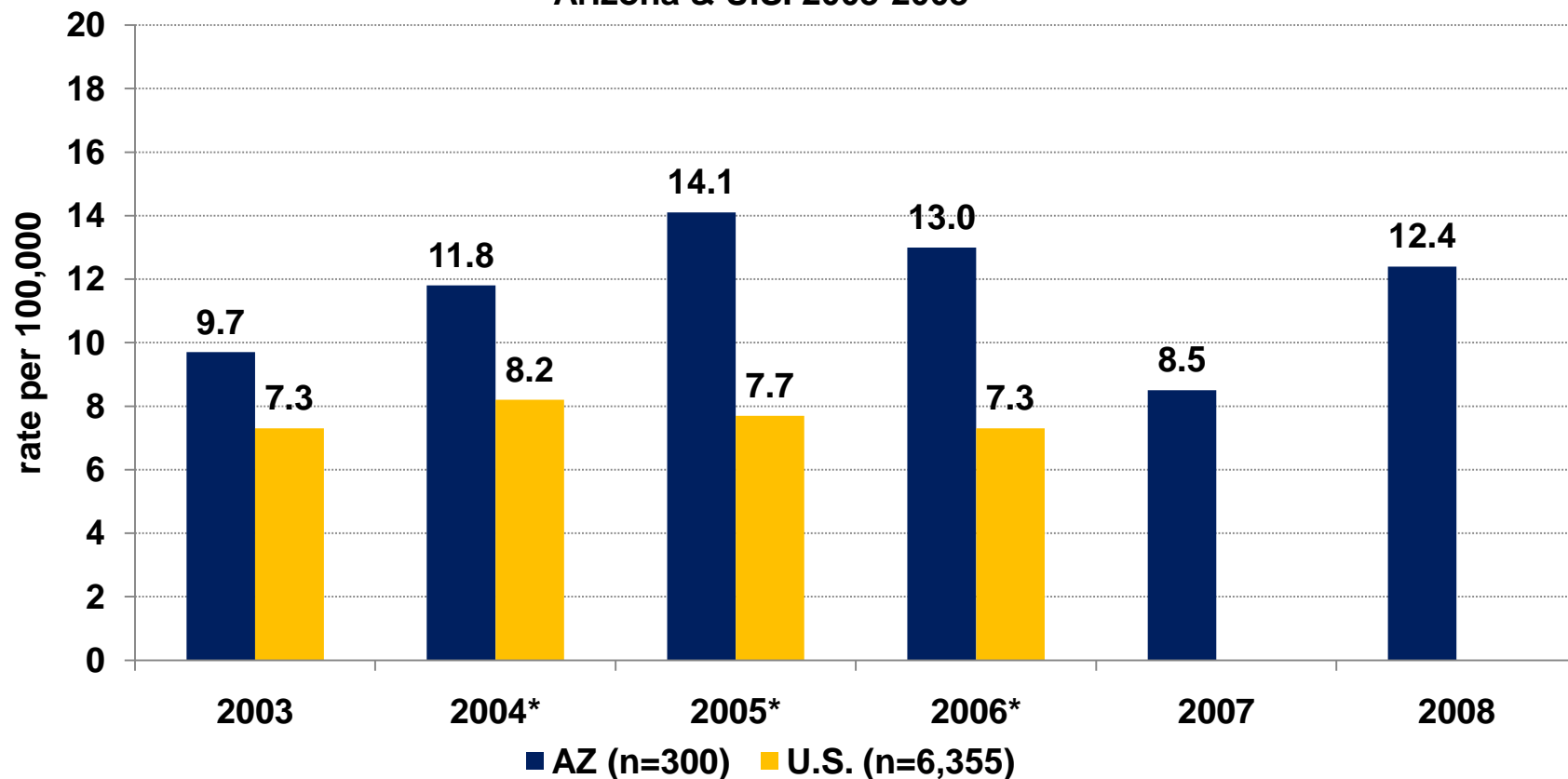


\*significant difference between AZ and U.S. at  $\alpha=0.05$   
Source: Youth Risk Behavior Survey, 2003, 2005, 2007

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## Mortality Rate for Deaths by Suicide per 100,000 Adolescents Age 15-19 Years Arizona & U.S. 2003-2008



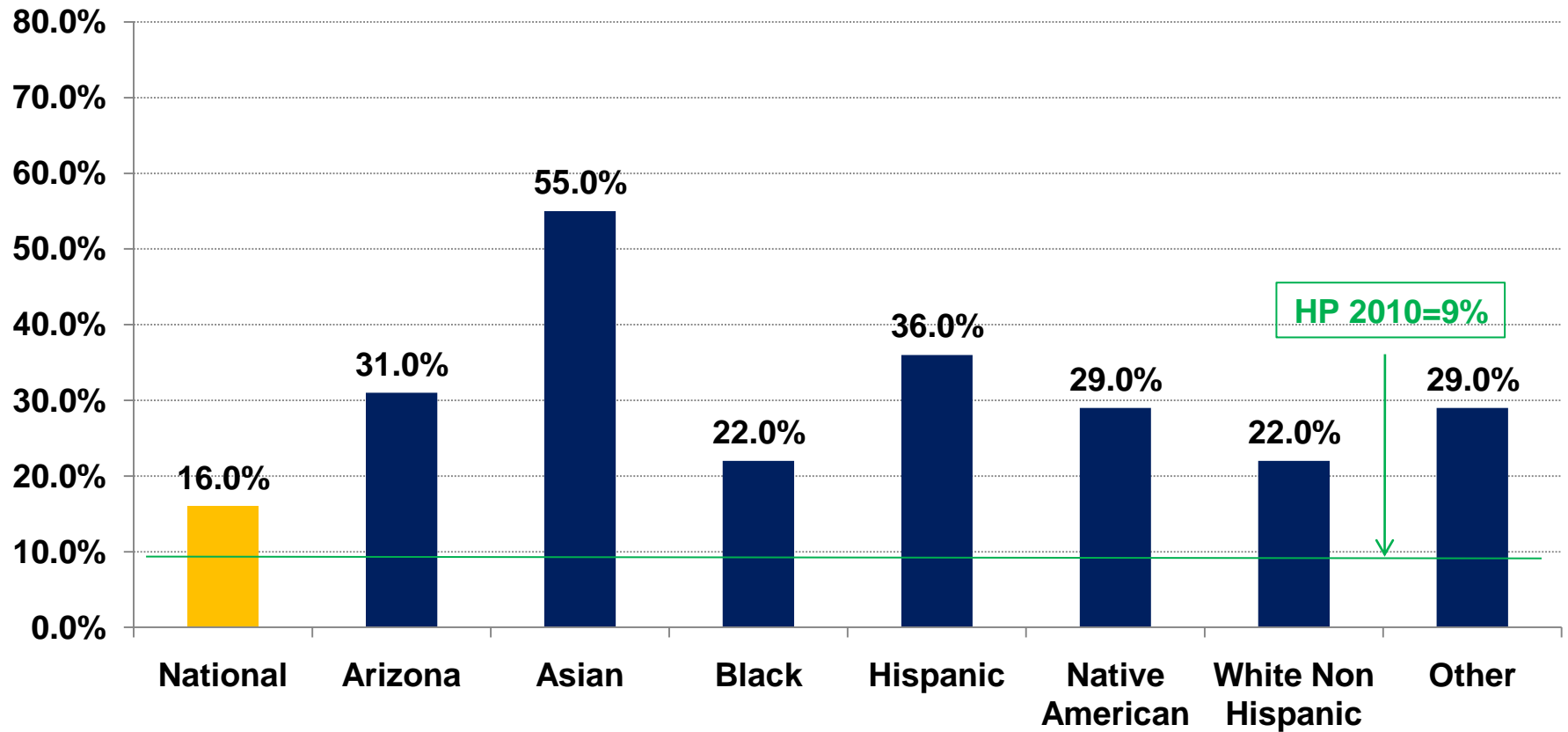
\*significant difference between AZ and the U.S. at  $\alpha=0.05$

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## Children Age 2-4 Years with Untreated Tooth Decay U.S. & Arizona, 2009

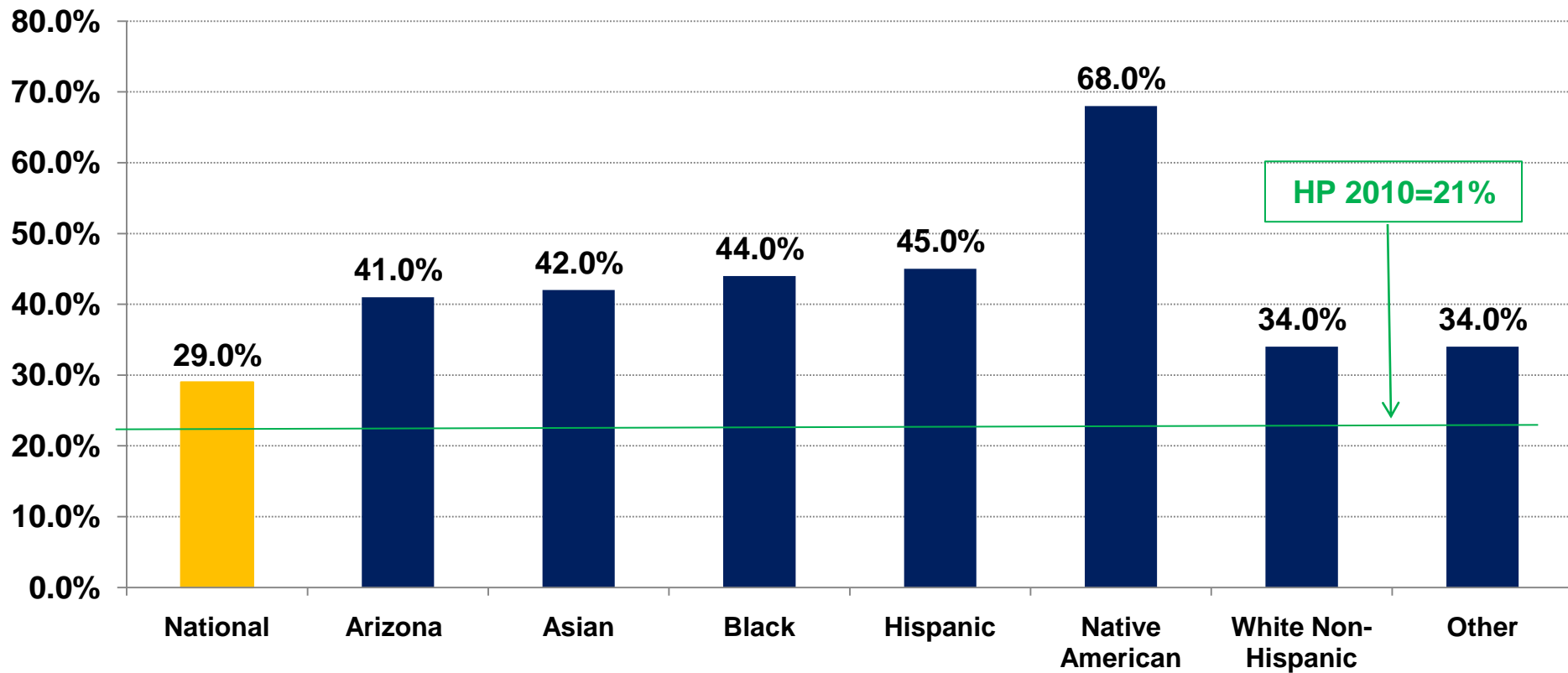


Source: Arizona Healthy Smiles Health Bodies Survey, 2009 (data not weighted to population)

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### 3rd Grade with Untreated Tooth Decay U.S. & Arizona, 2009

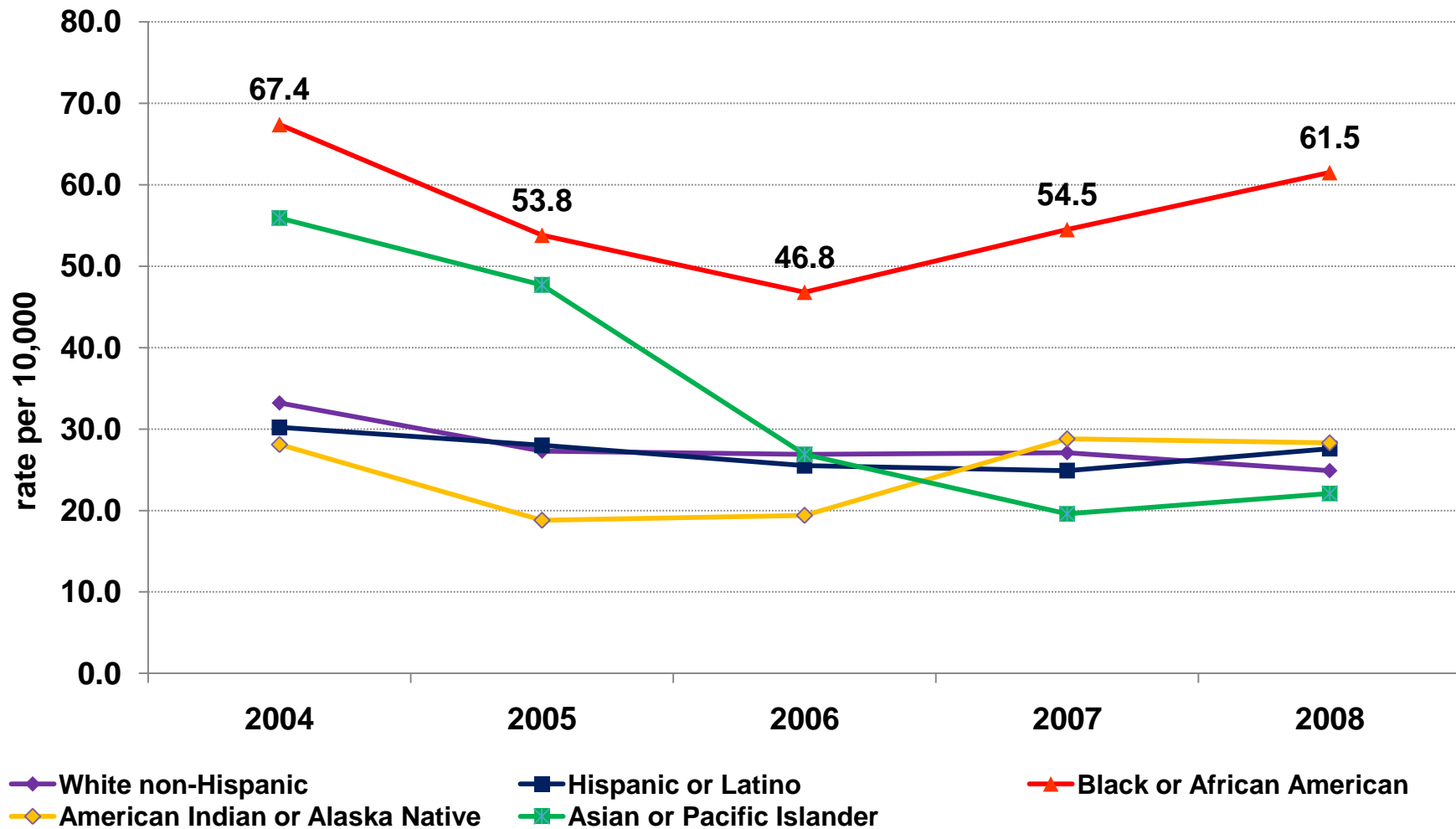


Source: Healthy Smiles Healthy Bodies Survey, 2009 (data not weighted to population)

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# Hospitalization Rate for Asthma per 10,000 Children Age <5 Years by Race/Ethnicity, Arizona 2004-2008

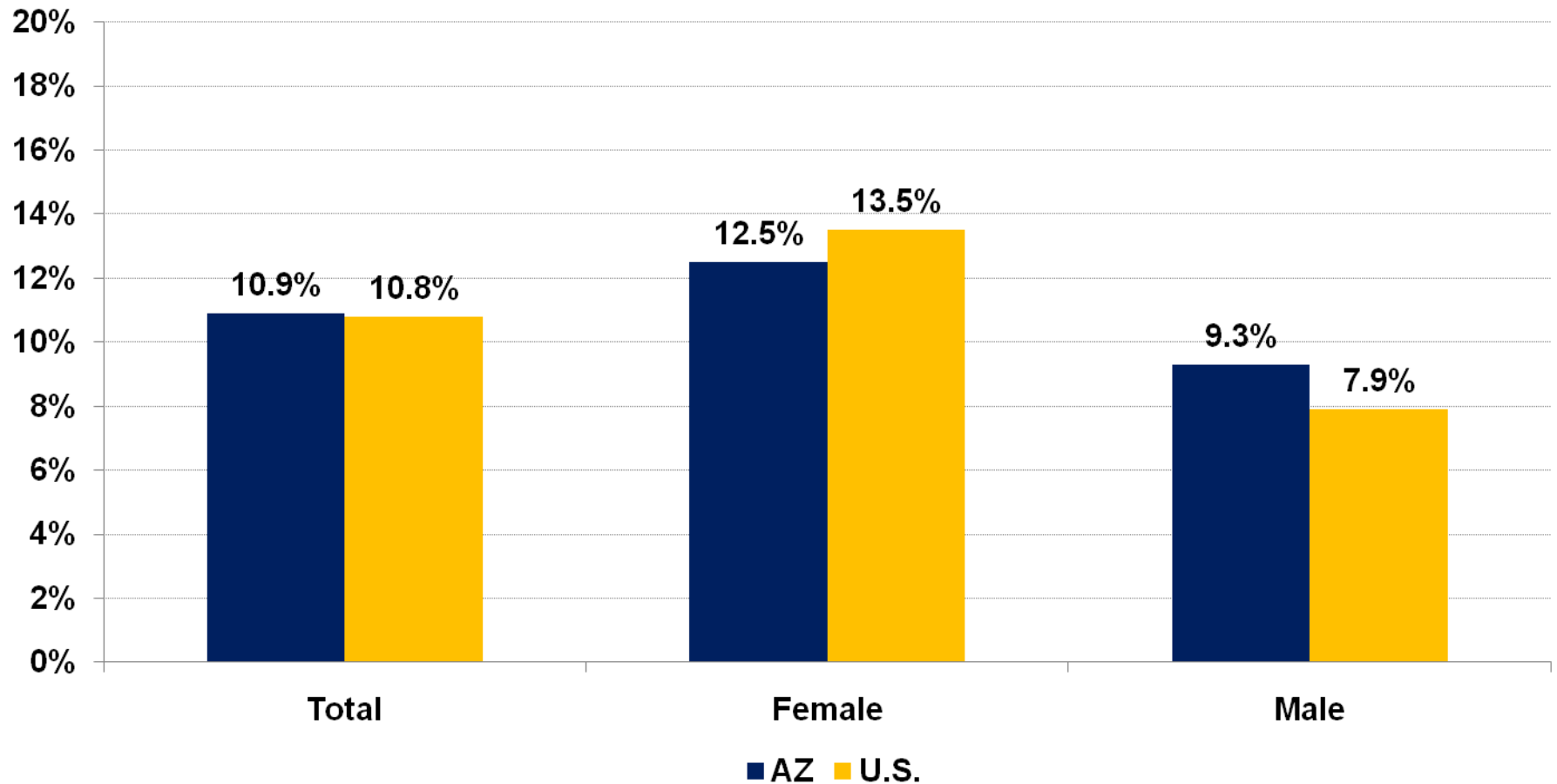


Source: Arizona Hospital Discharge Data, 2004-2008

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## Prevalence of Current Asthma Diagnosis Among High School Aged Students Arizona & U.S. 2007

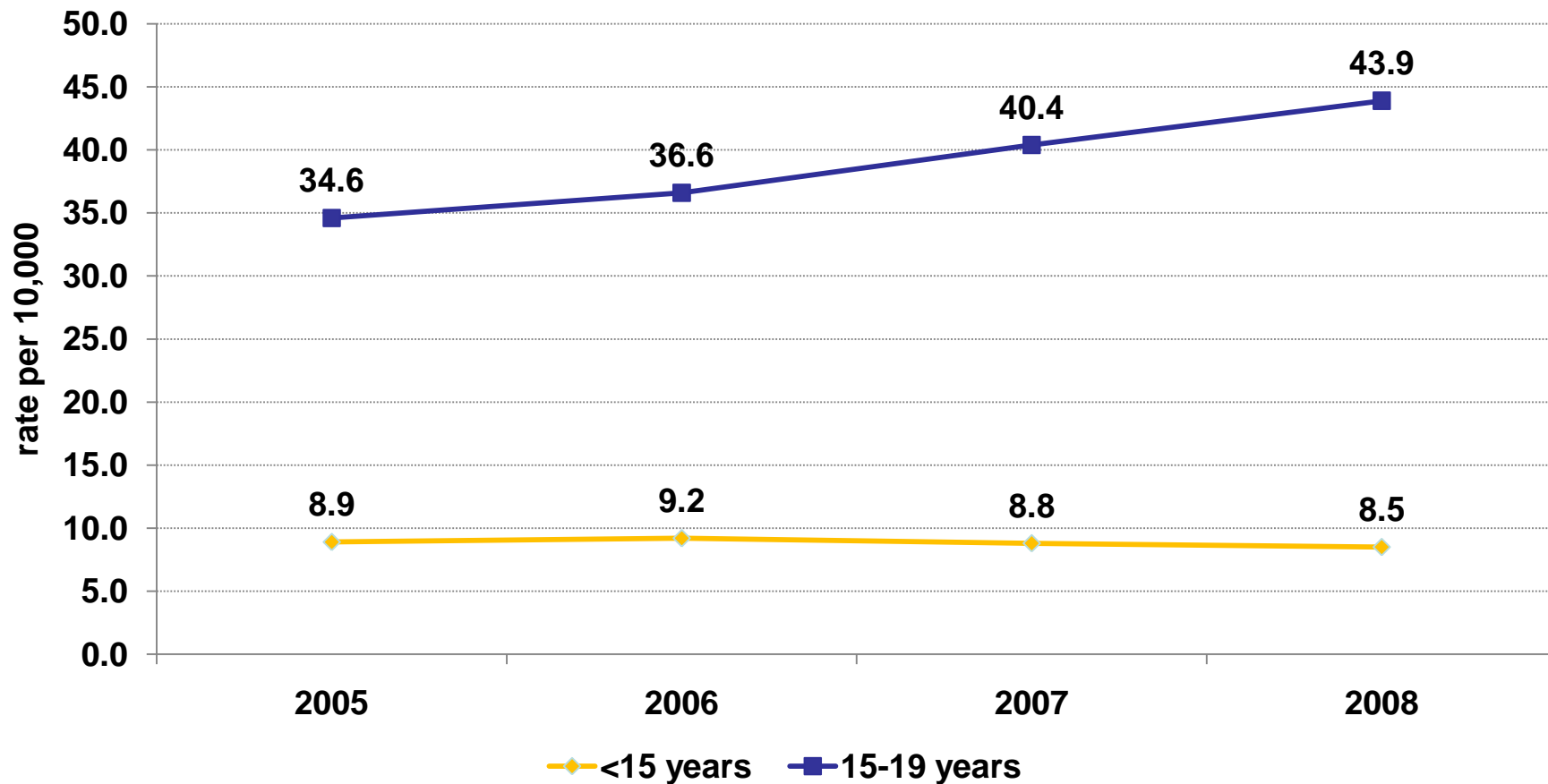


Source: Arizona YRBS, 2007

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## Diabetes-related Emergency Room Visits and Inpatient Discharges per 10,000 Children and Adolescents, Arizona 2005-2008



Source: Arizona Hospital Discharge Data, 2005-2008

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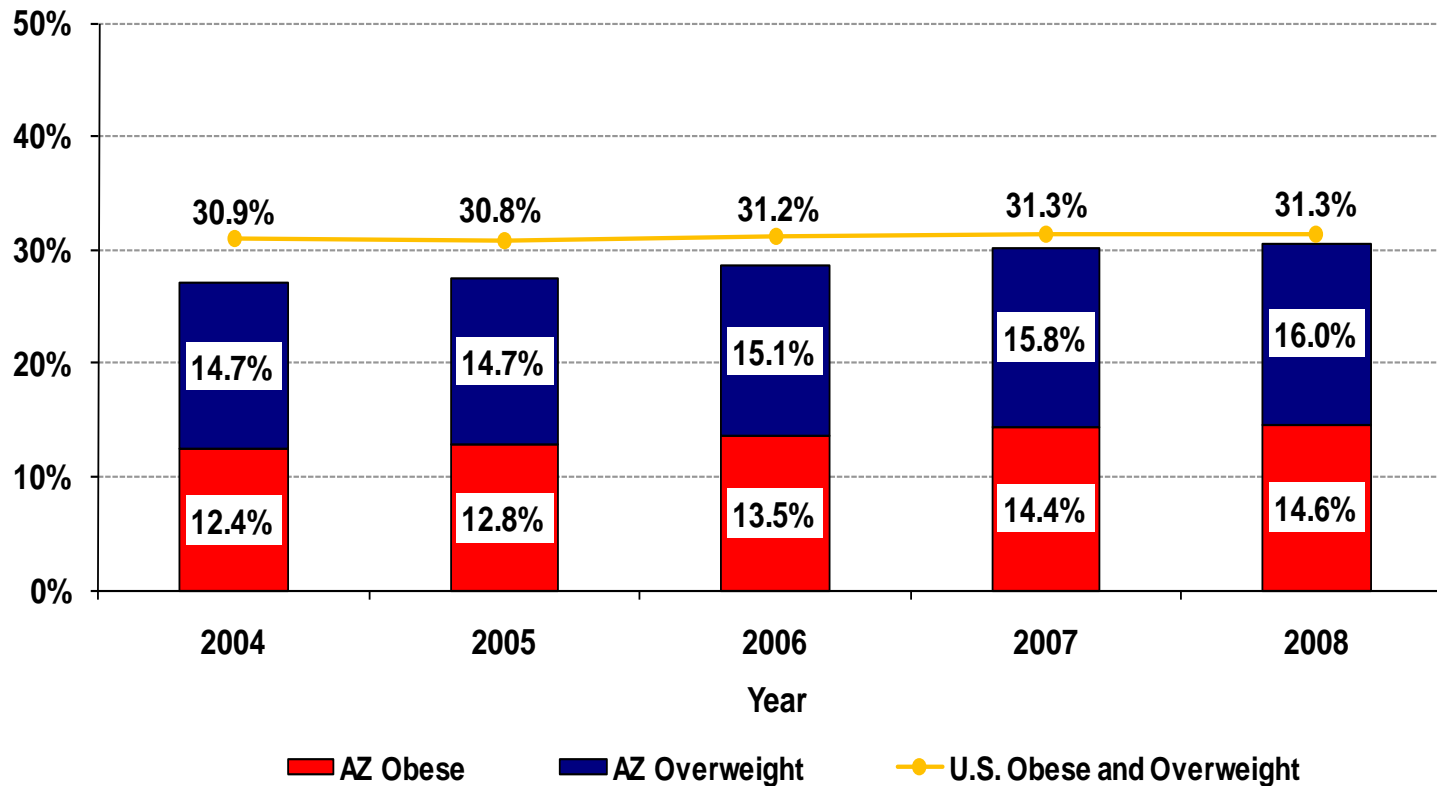
# **Children and Adolescents**

## ***Health Determinants, Risk, and Protective Factors***

### ***Examples:***

- Overweight and obesity
- Teen pregnancy and birth
- Substance abuse/Anti-social behavior

## Prevalence of Obesity and Overweight among Low Income Children Age 2 to <5 Years, Arizona 2004-2008



Source: Pediatric Nutrition Surveillance, 2008

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**TABLE 1**  
**Prevalence of Overweight and Obesity by Race/Ethnicity of Low Income Children Age 2 to <5 Years**  
**Arizona, 1999 & 2008**

<b>White non-Hispanic</b>	<b>1999<sup>1</sup></b>	<b>2008<sup>1</sup></b>	<b>Percent Change</b>
Overweight	10.9	14.0	<b>28.4</b>
Obesity	6.6	9.5	<b>43.9</b>
<b>Total Overweight or Obese</b>	<b>17.5</b>	<b>23.5</b>	<b>34.3</b>
<b>Hispanic or Latino</b>			
Overweight	13.2	16.6	<b>25.8</b>
Obesity	11.5	16.2	<b>40.9</b>
<b>Total Overweight or Obese</b>	<b>24.7</b>	<b>32.8</b>	<b>32.8</b>
<b>Black or African American</b>			
Overweight	10.4	13.5	<b>29.8</b>
Obesity	6.5	10.3	<b>58.5</b>
<b>Total Overweight or Obese</b>	<b>16.9</b>	<b>23.8</b>	<b>40.8</b>
<b>American Indian or Native</b>			
Overweight	15.2	20.4	<b>34.2</b>
Obesity	15.7	20.1	<b>28.0</b>
<b>Total Overweight or Obese</b>	<b>30.9</b>	<b>40.5</b>	<b>31.1</b>
<b>Asian or Pacific Islander</b>			
Overweight	9.9	12.1	<b>21.8</b>
Obesity	8.5	14.4	<b>69.4</b>
<b>Total Overweight or Obese</b>	<b>18.4</b>	<b>26.5</b>	<b>44.0</b>

Source: Pediatric Nutrition Surveillance, 2008

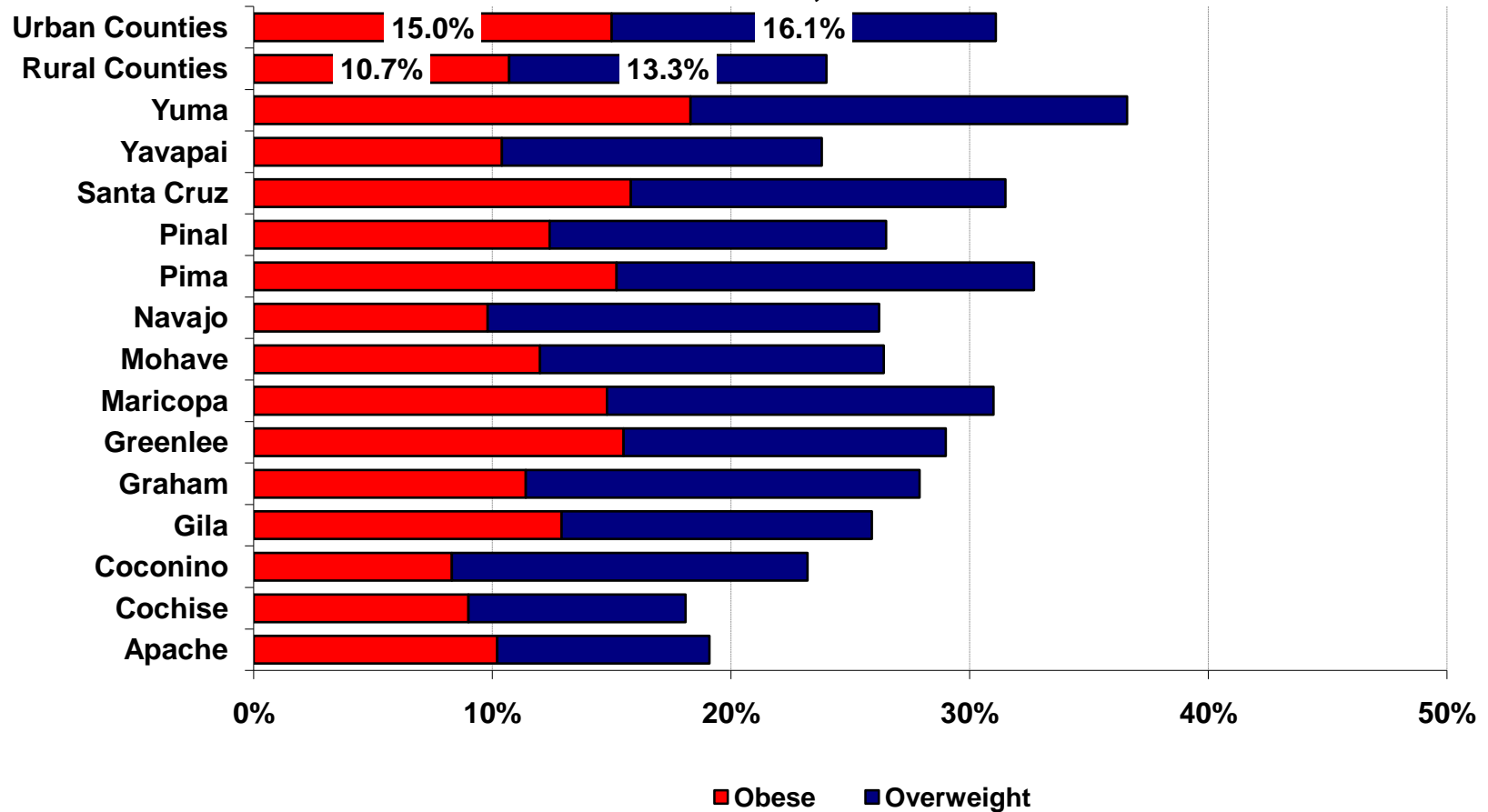
<sup>1</sup> per 100 children age 2 to <5 years.

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**Percent of Obesity and Overweight  
among Low Income Children Age 2 to <5 Years  
Arizona Counties, 2006-2008**

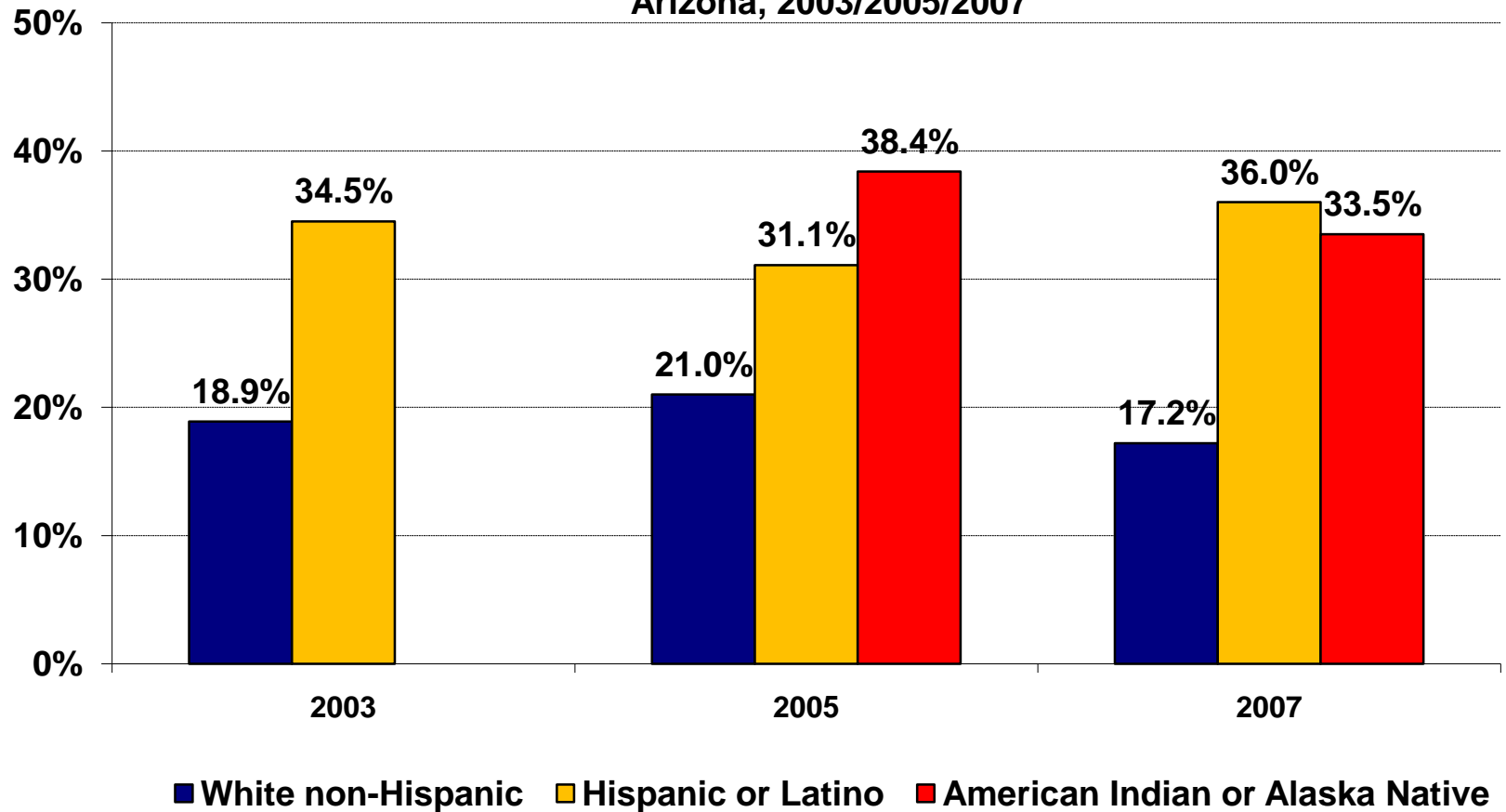


Source: Pediatric Nutrition Surveillance, 2008

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## Prevalence of Obesity or Overweight Among High School Aged Youth Arizona, 2003/2005/2007

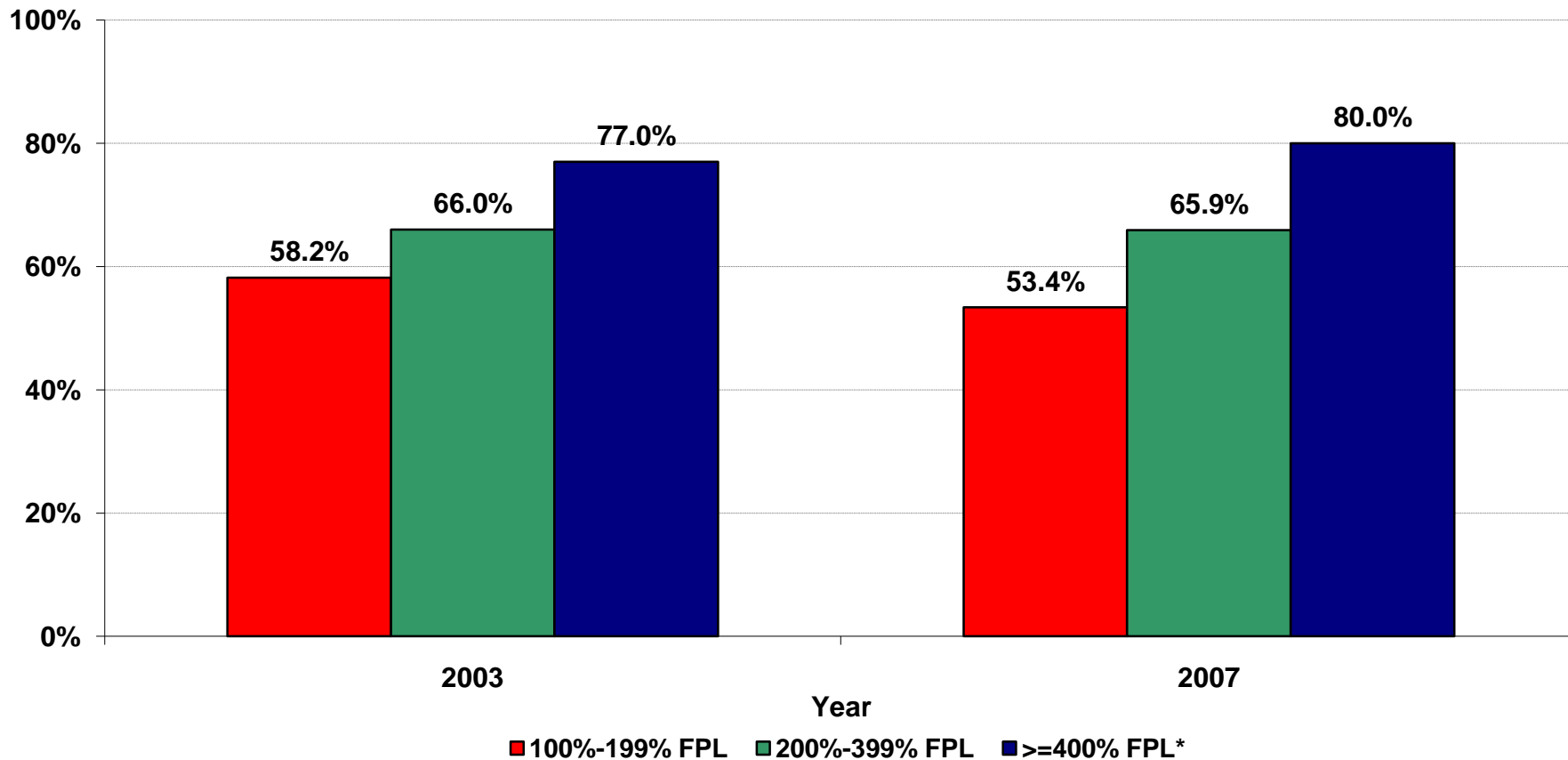


Source: Youth Risk Behavior Survey 2003, 2005, 2007

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**Percent of Children Age 10-17 at 'Healthy Weight' by Family Income Level  
Arizona 2003, 2007**



FPL= Federal Poverty Level

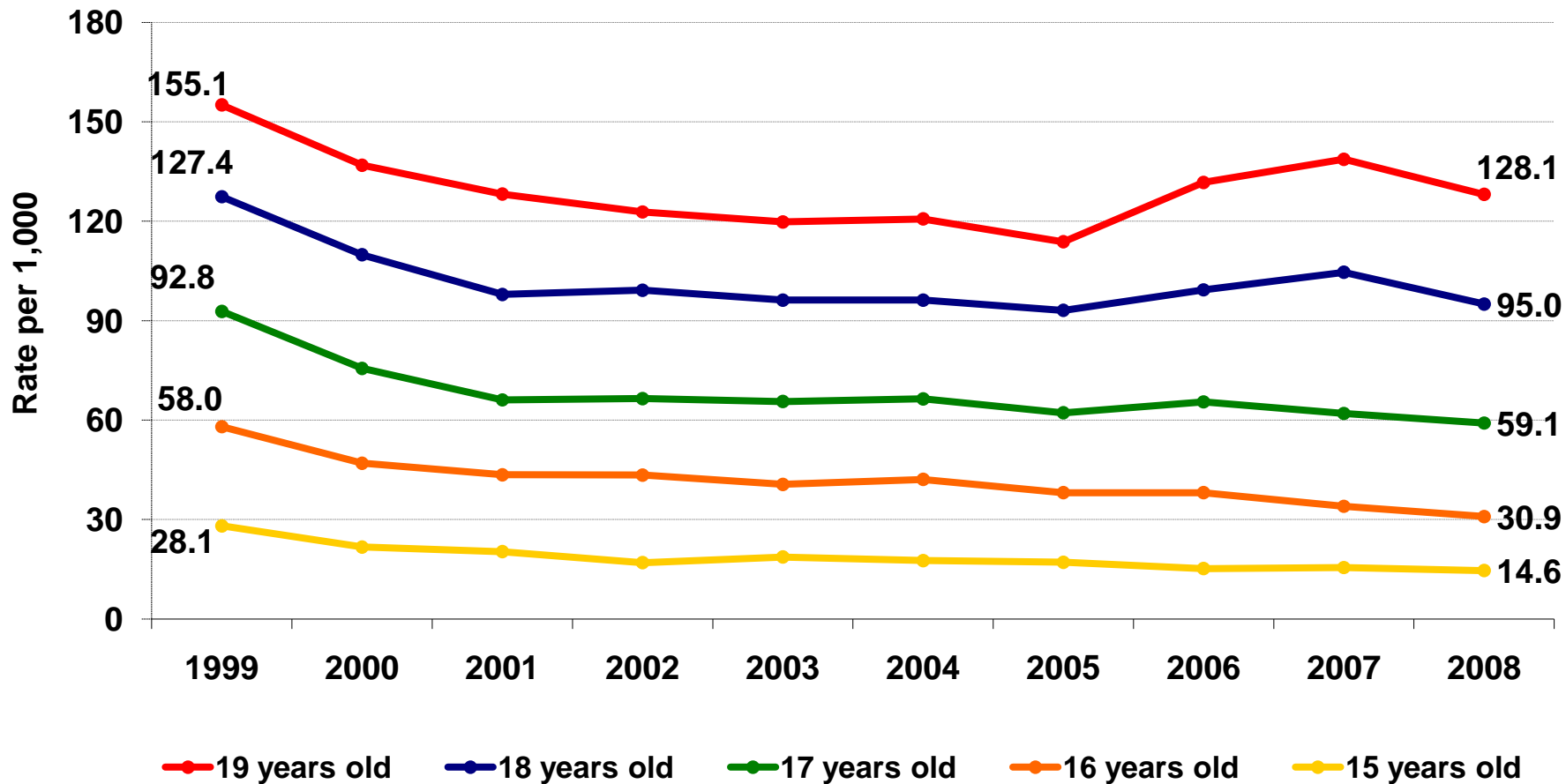
\*significantly greater percentage of children at healthy weight compared to children at 100%-199% FPL at  $\alpha=0.05$

Source: National Survey of Children's Health, 2003, 2007

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## Estimated Teen Pregnancy Rates Females Age 15-19 Years Arizona 1999-2008

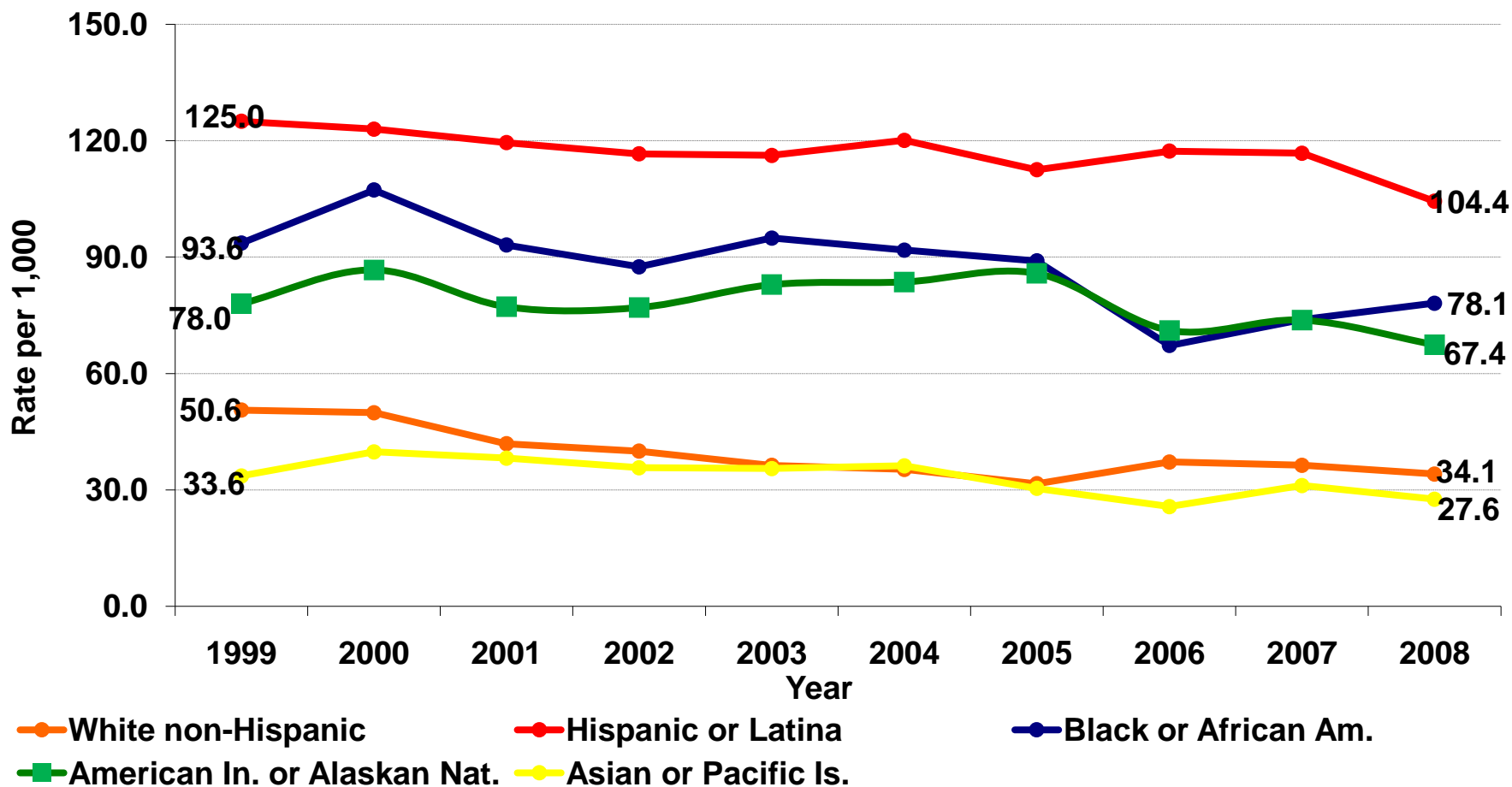


Source: Arizona Vital Statistics, 1999-2008

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# Teen Pregnancy for Females Age 15-19 Years by Race/Ethnicity, Arizona 1999-2008

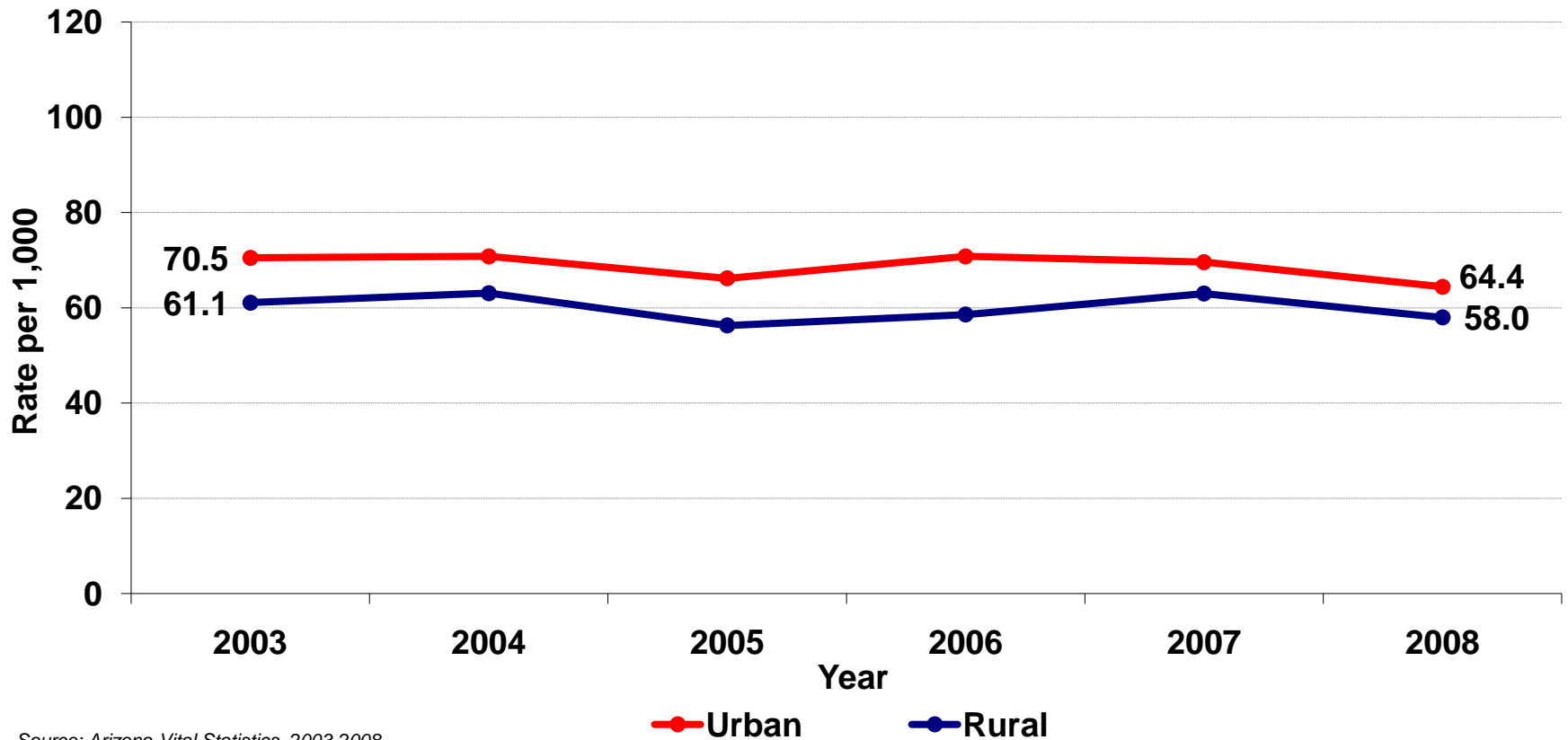


Source: Arizona Vital Statistics, 1999-2008

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## Teen Pregnancy for Females Age 15-19 Years by Urban and Rural Residence, Arizona 2003-2008

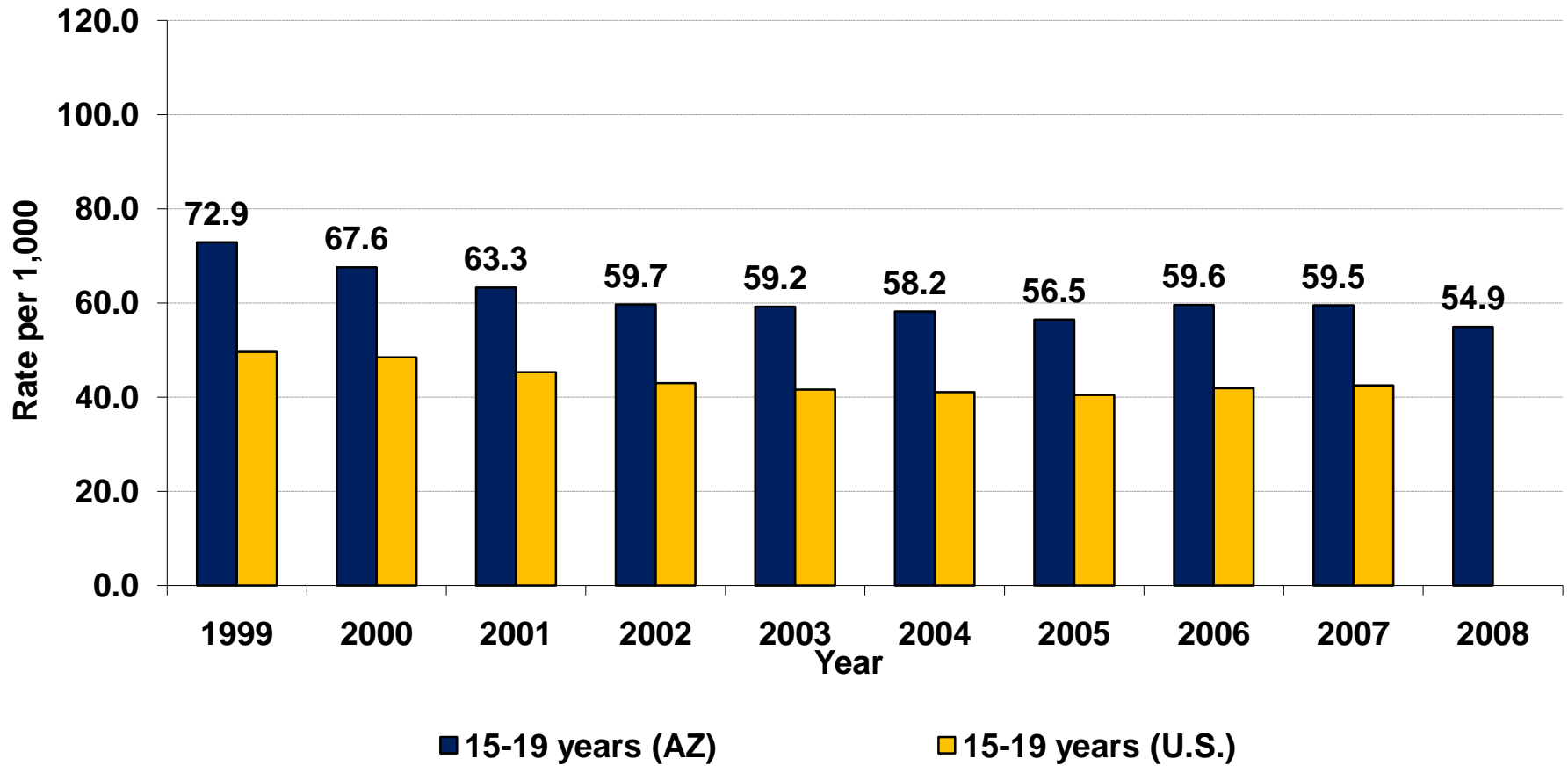


Source: Arizona Vital Statistics, 2003-2008

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# Births to Females Age 15-19 Years Arizona and the U.S. 1999-2008

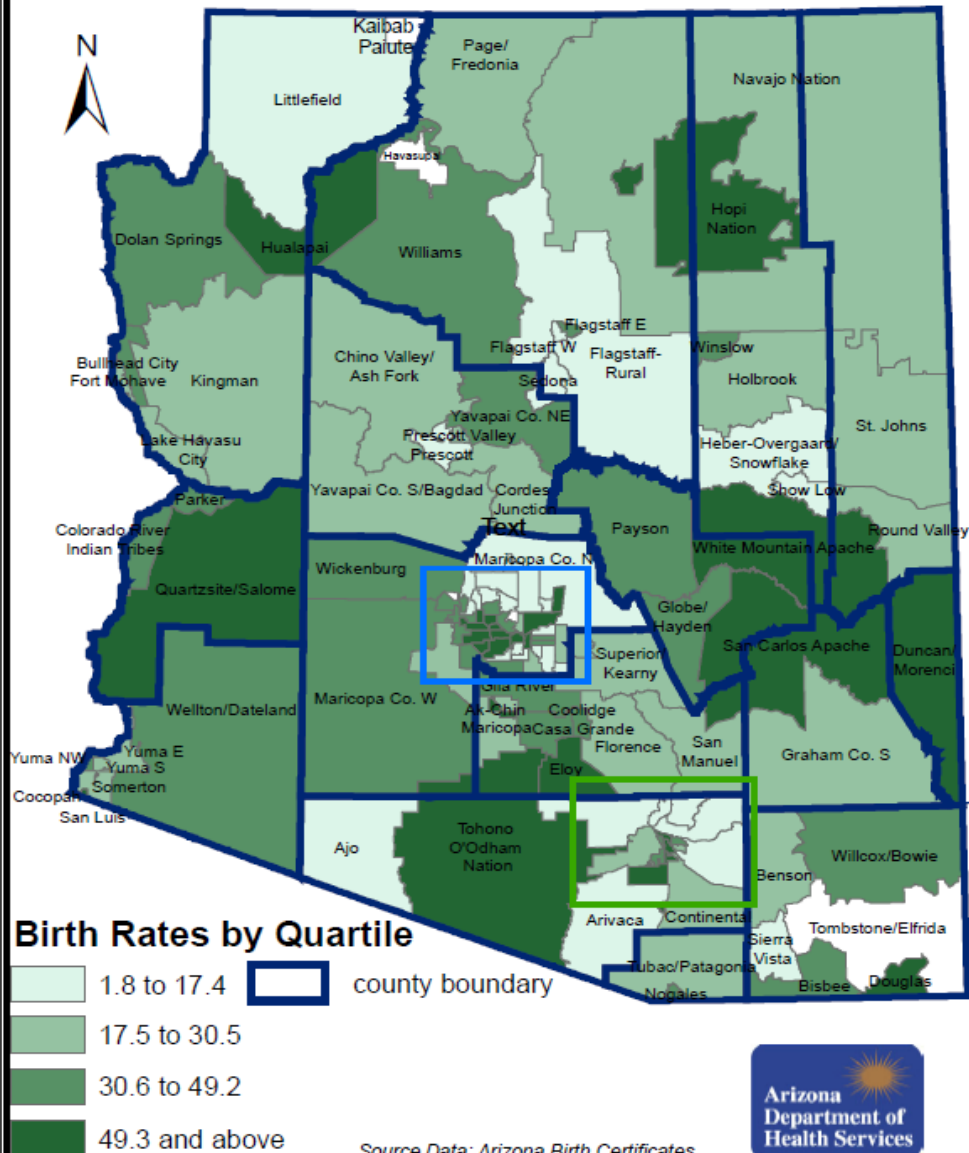


Source: Arizona Vital Statistics, 1999-2008

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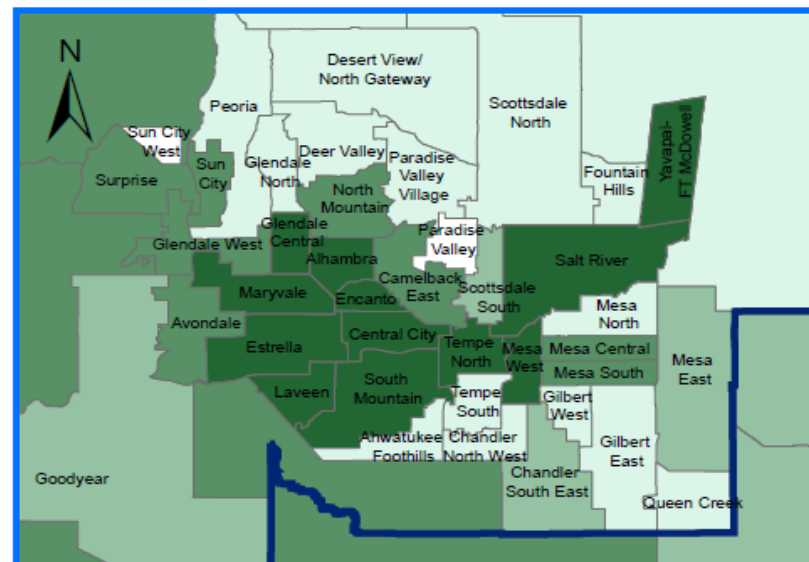


# Birth Rates per 1,000 Females Age 15-17 Years by Arizona Community Health Analysis Area (CHAA), 2008

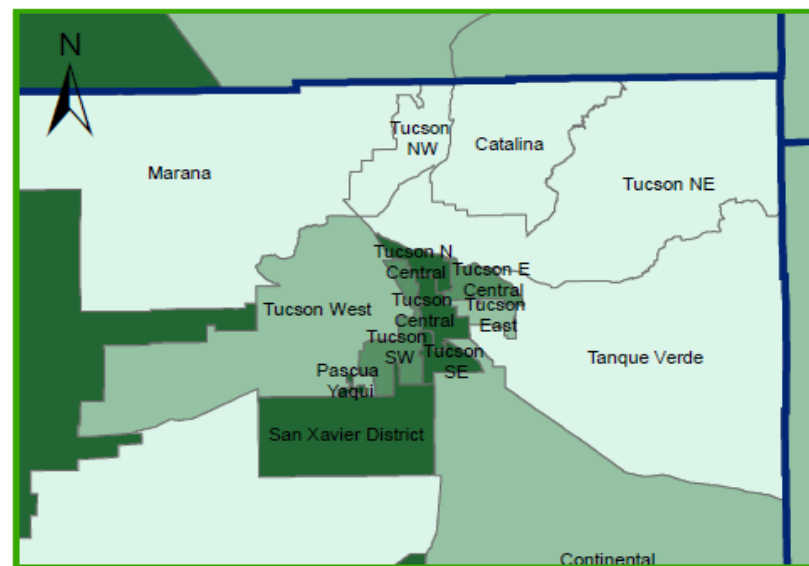


Source Data: Arizona Birth Certificates  
and Arizona Office of Vital Statistics, 2008

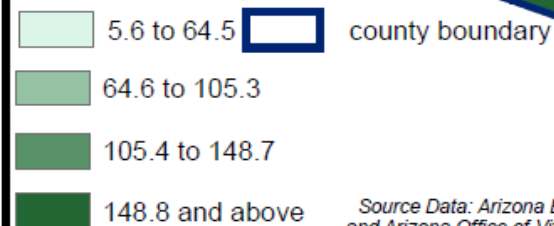
## Metro Phoenix



## Metro Tucson



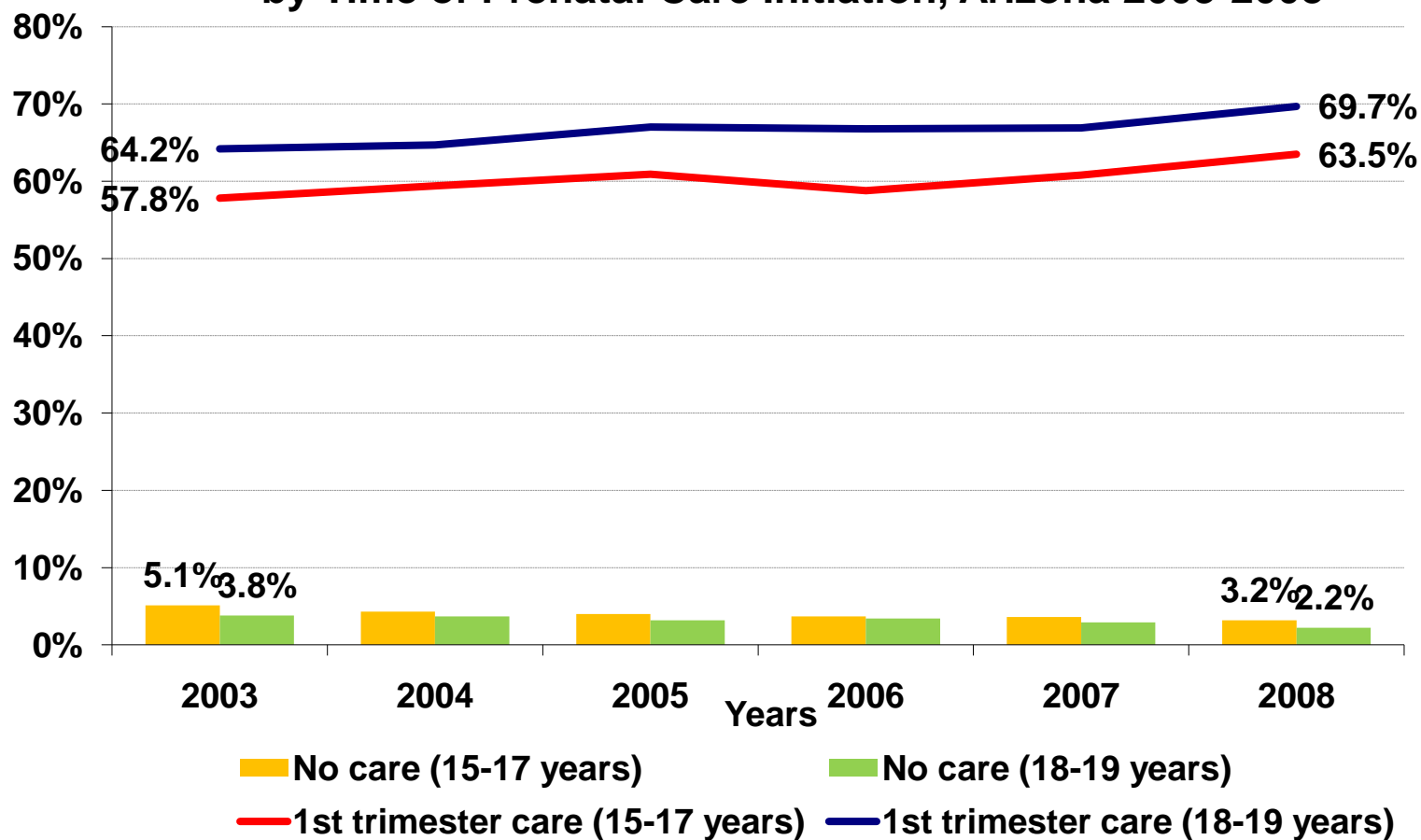




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A map of Tucson, Arizona, showing various districts and areas. The map includes labels for Marana, Tucson NW, Catalina, Tucson NE, Tucson N, Tucson Central, Tucson E, Tucson West, Tucson Central, Tucson East, Tucson SW, Tucson SE, Pasqua Yagui, and San Xavier District. A north arrow is located in the top left corner.

## Percent of Births to Females Age 15-19 Years by Time of Prenatal Care Initiation, Arizona 2003-2008

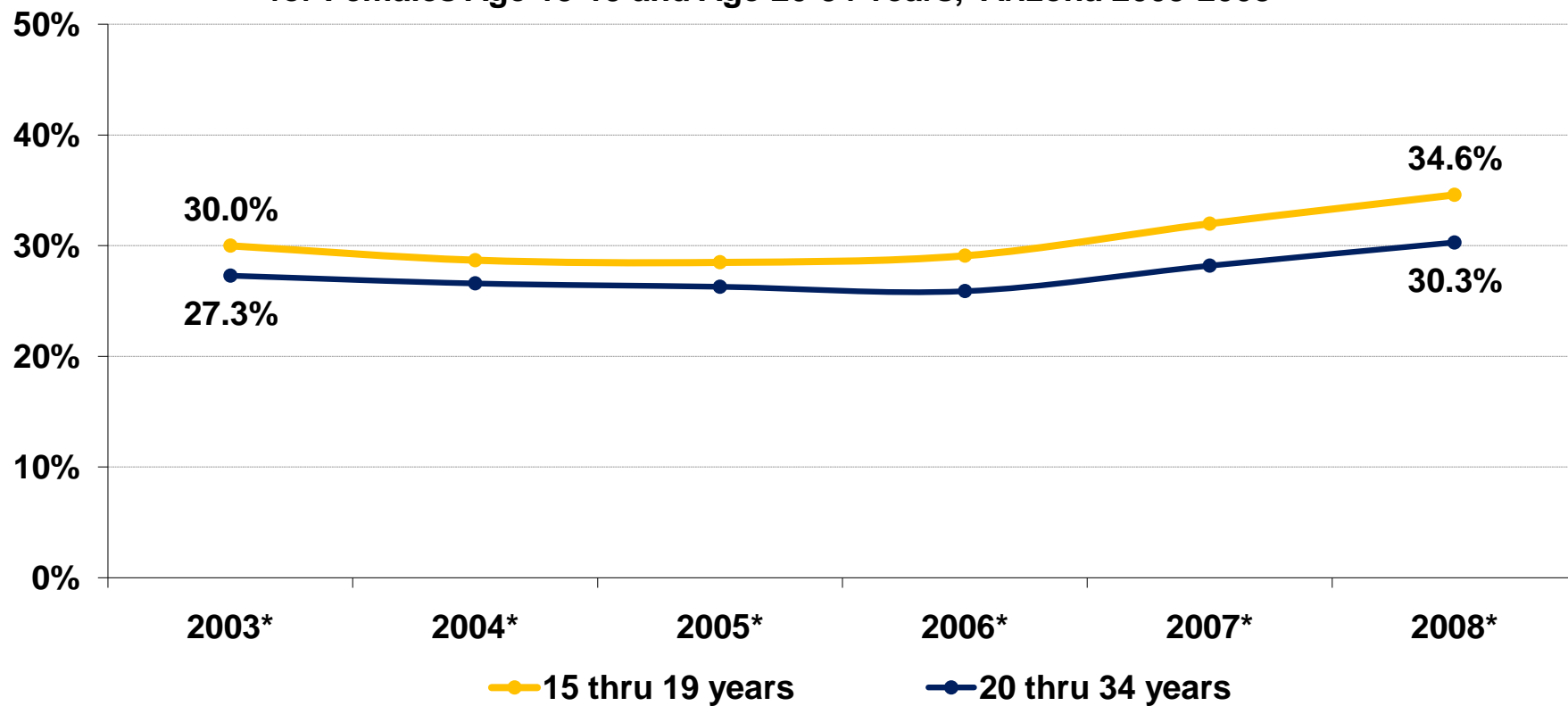


Source: Arizona Vital Statistics, 2003-2008

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# Mothers with Medical Risk Factors per 100 Live Births for Females Age 15-19 and Age 20-34 Years, Arizona 2003-2008

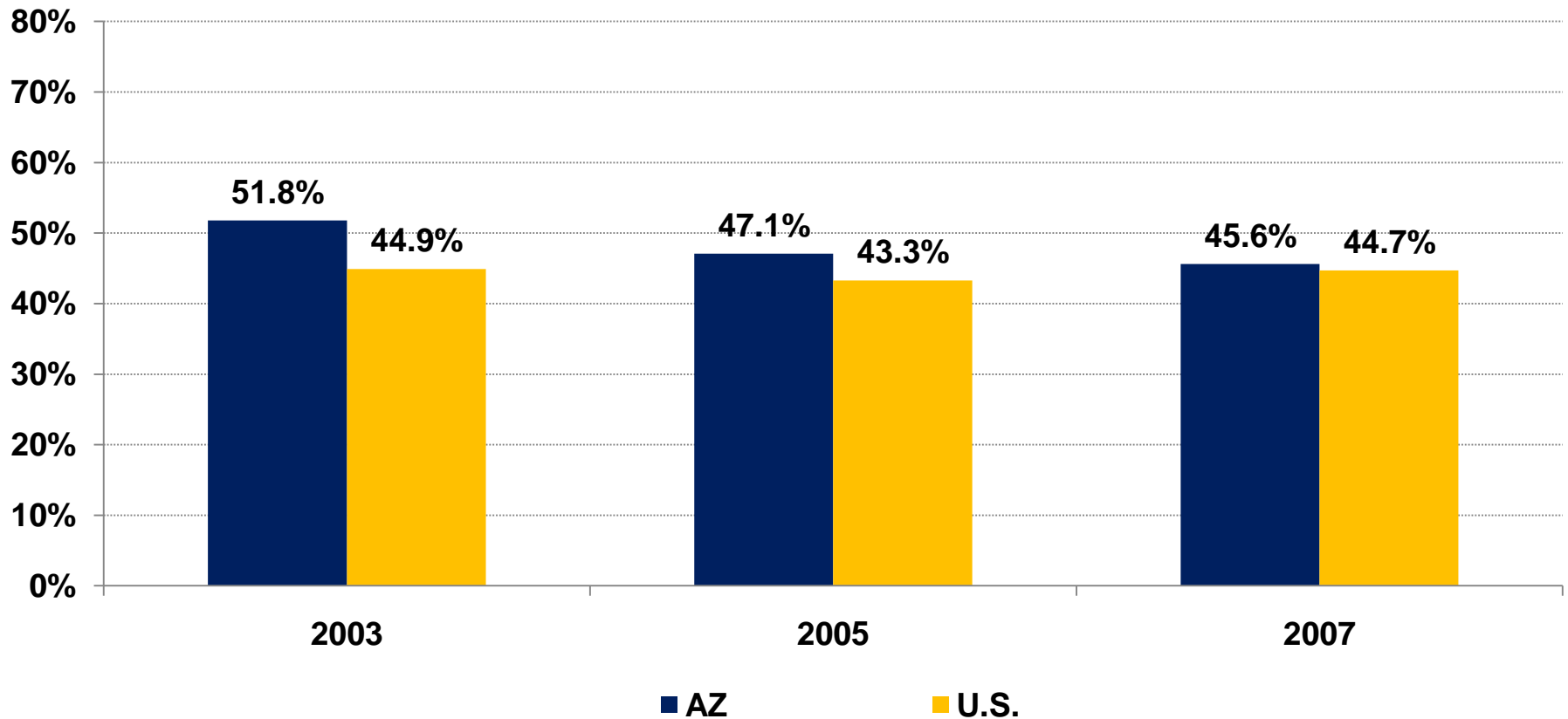


\* significant difference at  $\alpha=0.05$   
Source: Arizona Vital Statistics, 2003-2008

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## Alcohol Consumption in Past Month by High School Aged Students Arizona & U.S. 2003/2005/2007

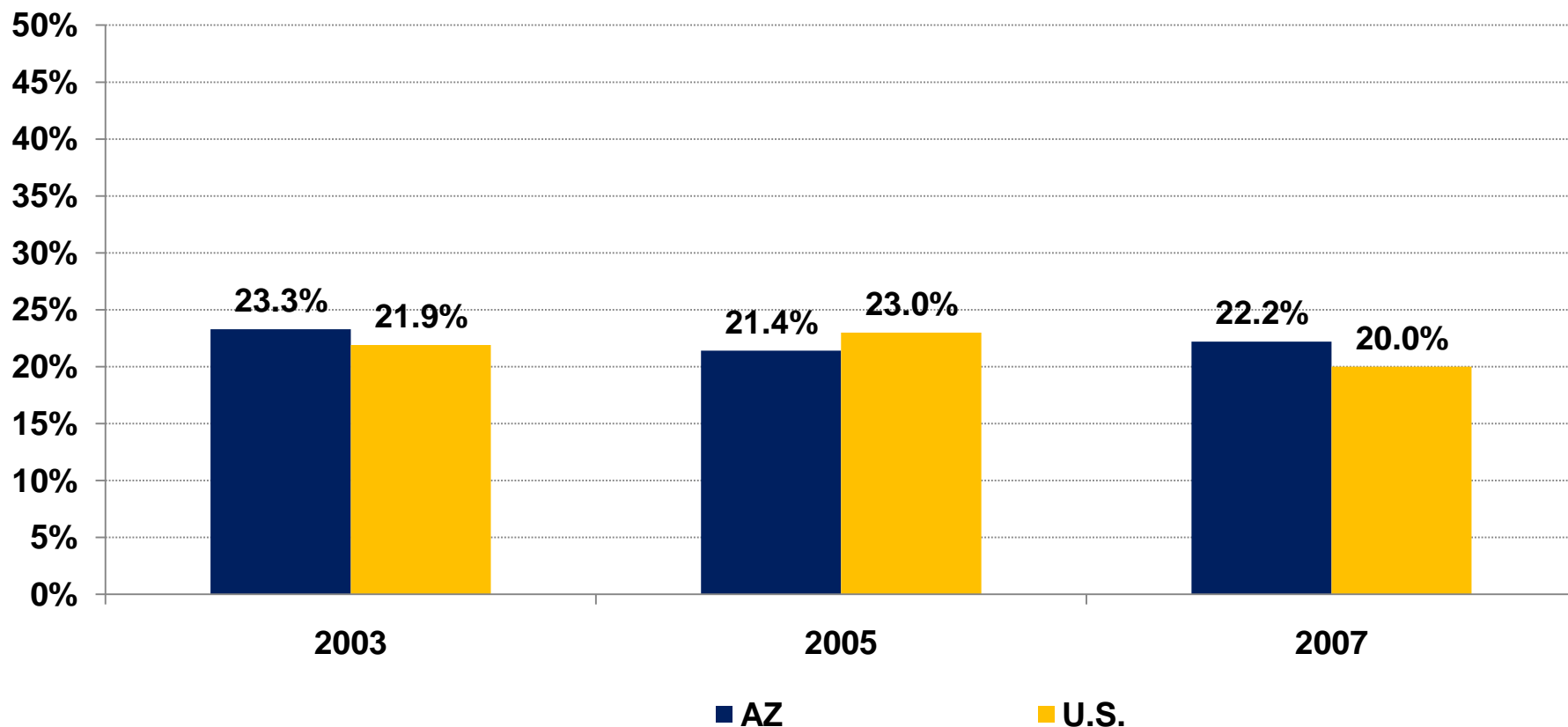


Source: Youth Risk Behavior Survey, 2003/2005/2007

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## Smoked Cigarettes in Past Month by High School Aged Students Arizona & U.S. 2003/2005/2007

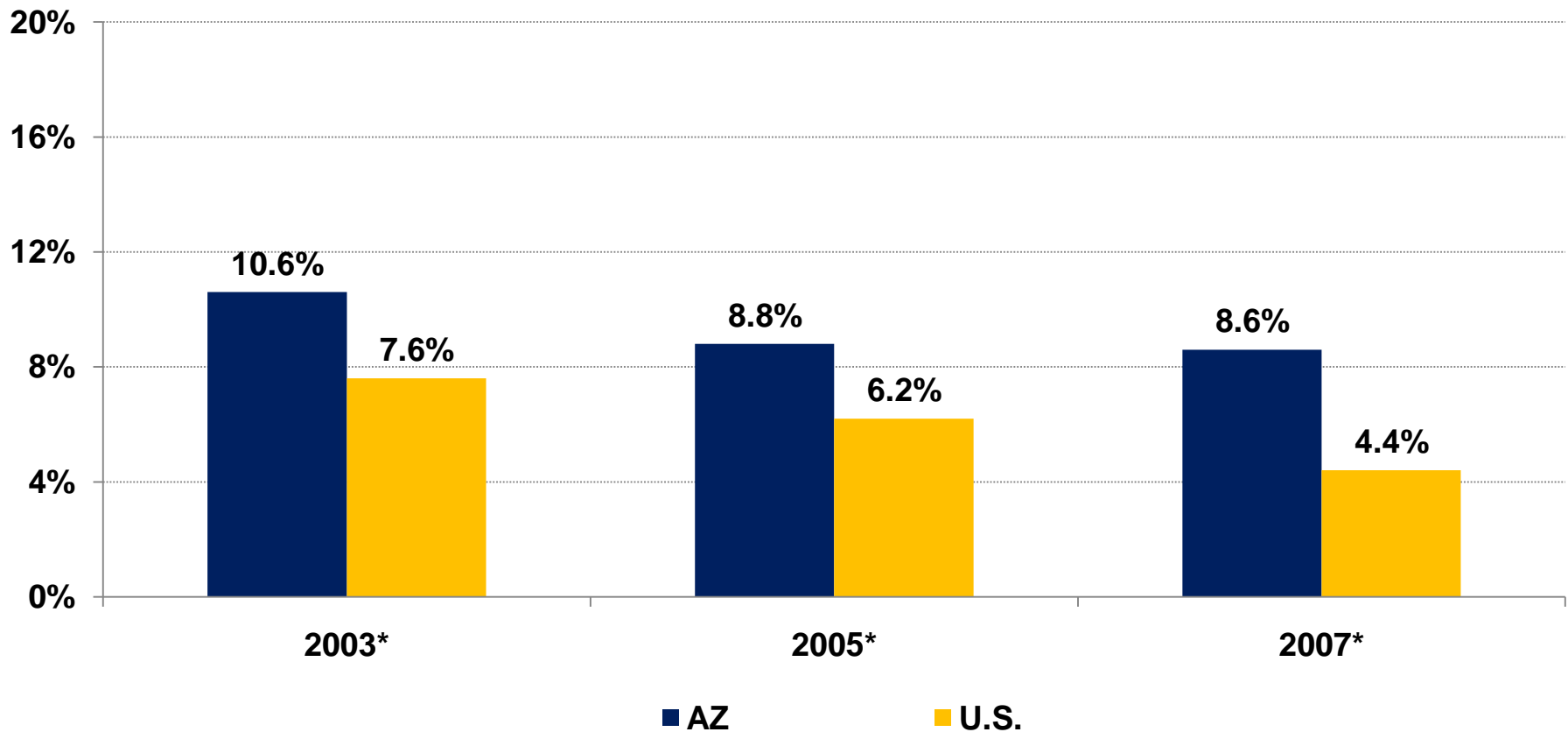


Source: Youth Risk Behavior Survey, 2003/2005/2007

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## Lifetime Use of Methamphetamine by High School Aged Students Arizona & U.S. 2003/2005/2007

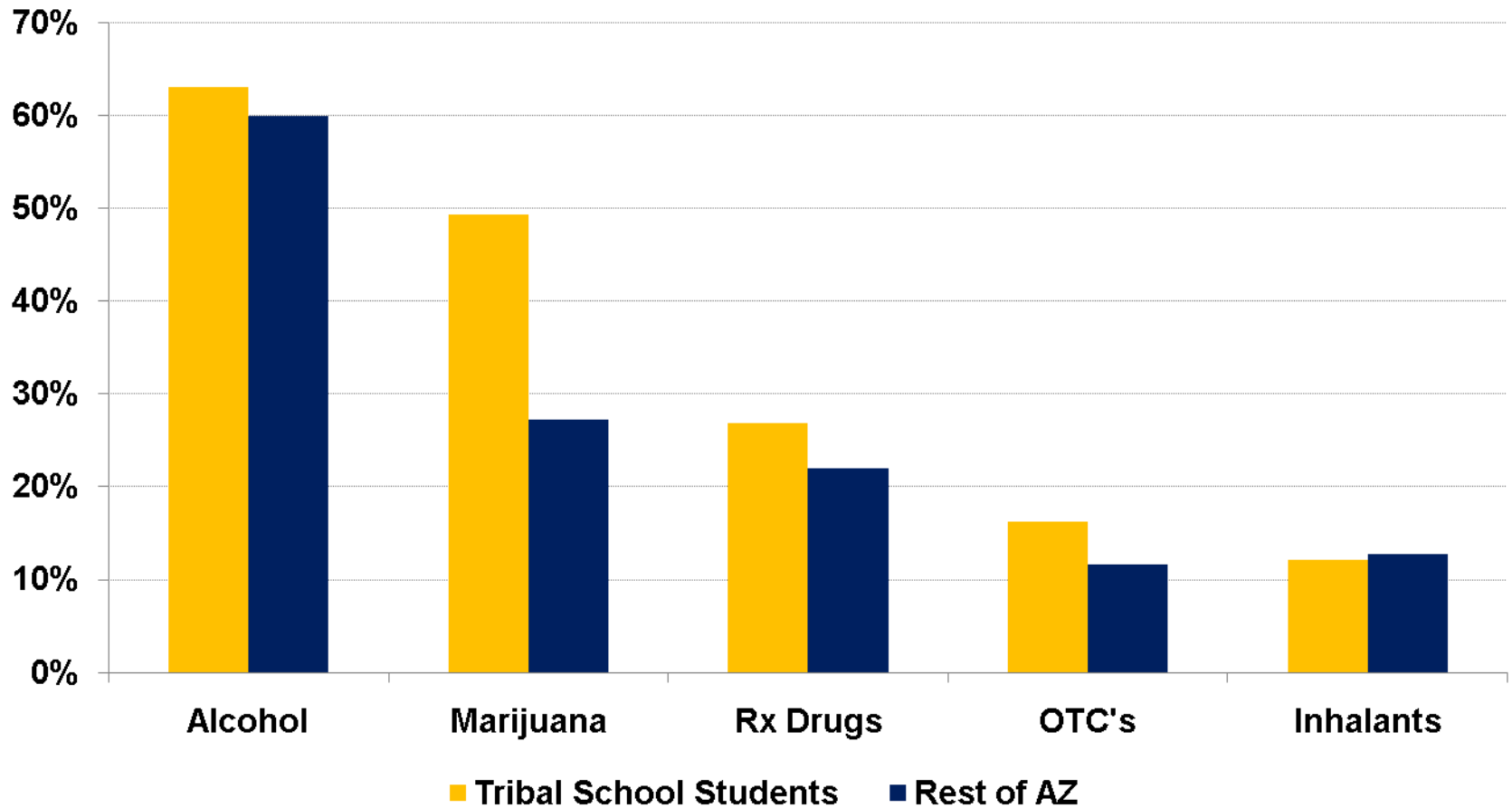


\*significant difference between AZ and U.S. at  $\alpha=0.05$   
Source: Youth Risk Behavior Survey, 2003/2005/2007

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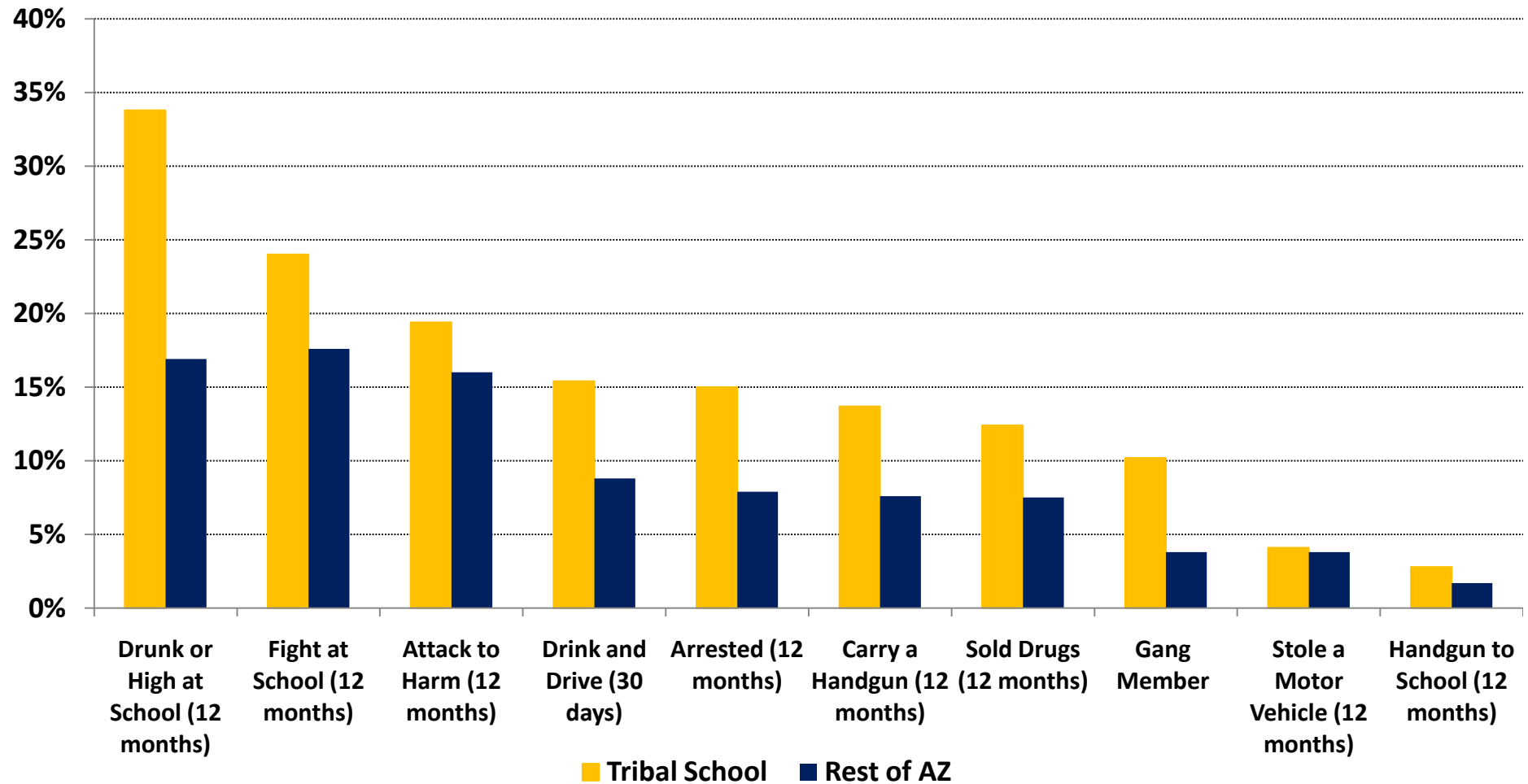
# Lifetime Substance Use Among 8th, 10th, & 12th Grade Students Arizona Youth Survey, 2008



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## Delinquency and Anti-Social Behavior Arizona Youth Survey, 2008



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# Pregnant Women and Infants

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# **Pregnant Women and Infants**

## ***Health Status and Well-Being Indicators***

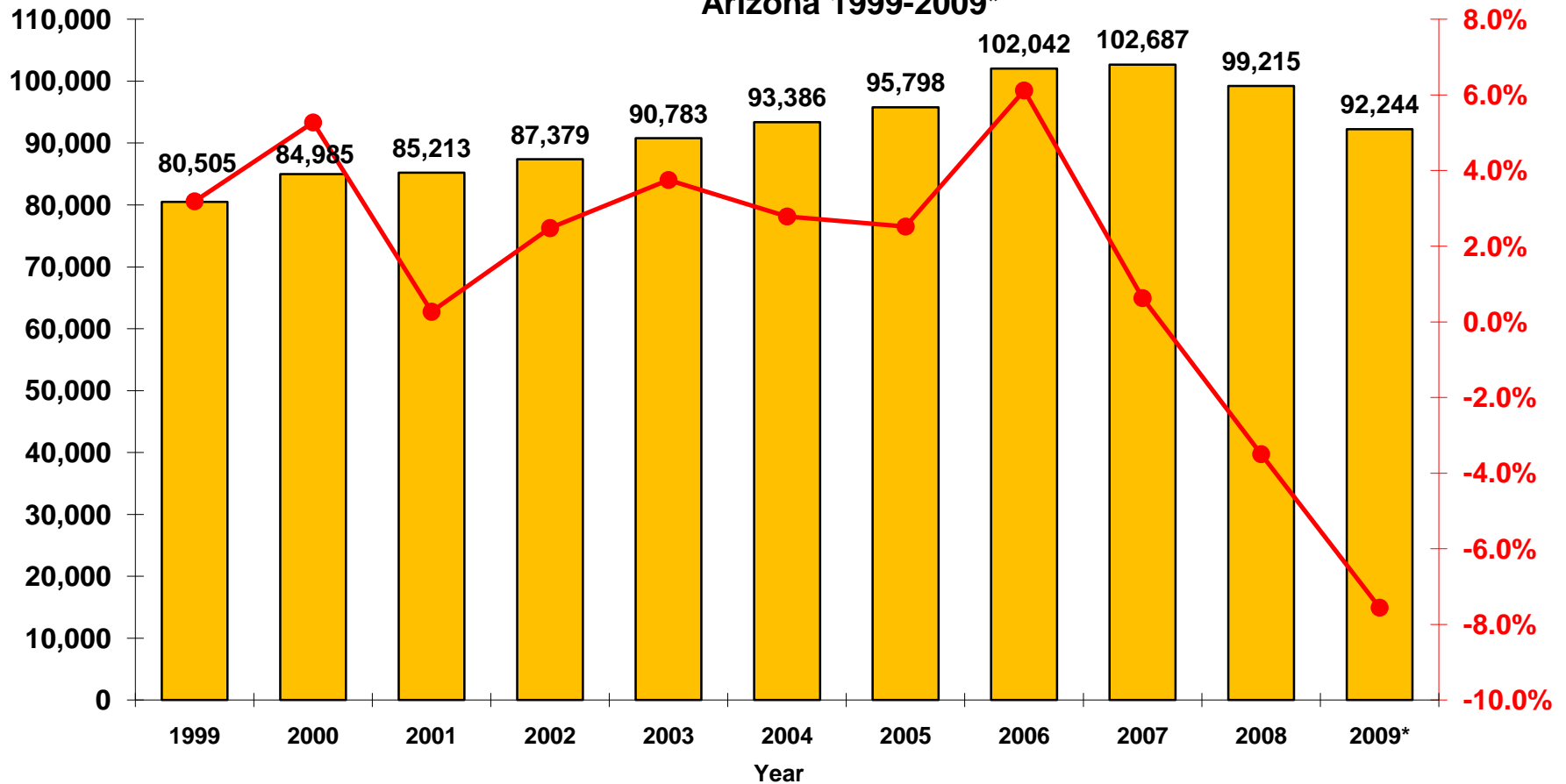
Examples include;

- 1) Preterm birth and low birth weight
- 2) Infant mortality/Stillbirths

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## Total Resident Births and Percent Change in Births by Year Arizona 1999-2009\*



\*provisional data

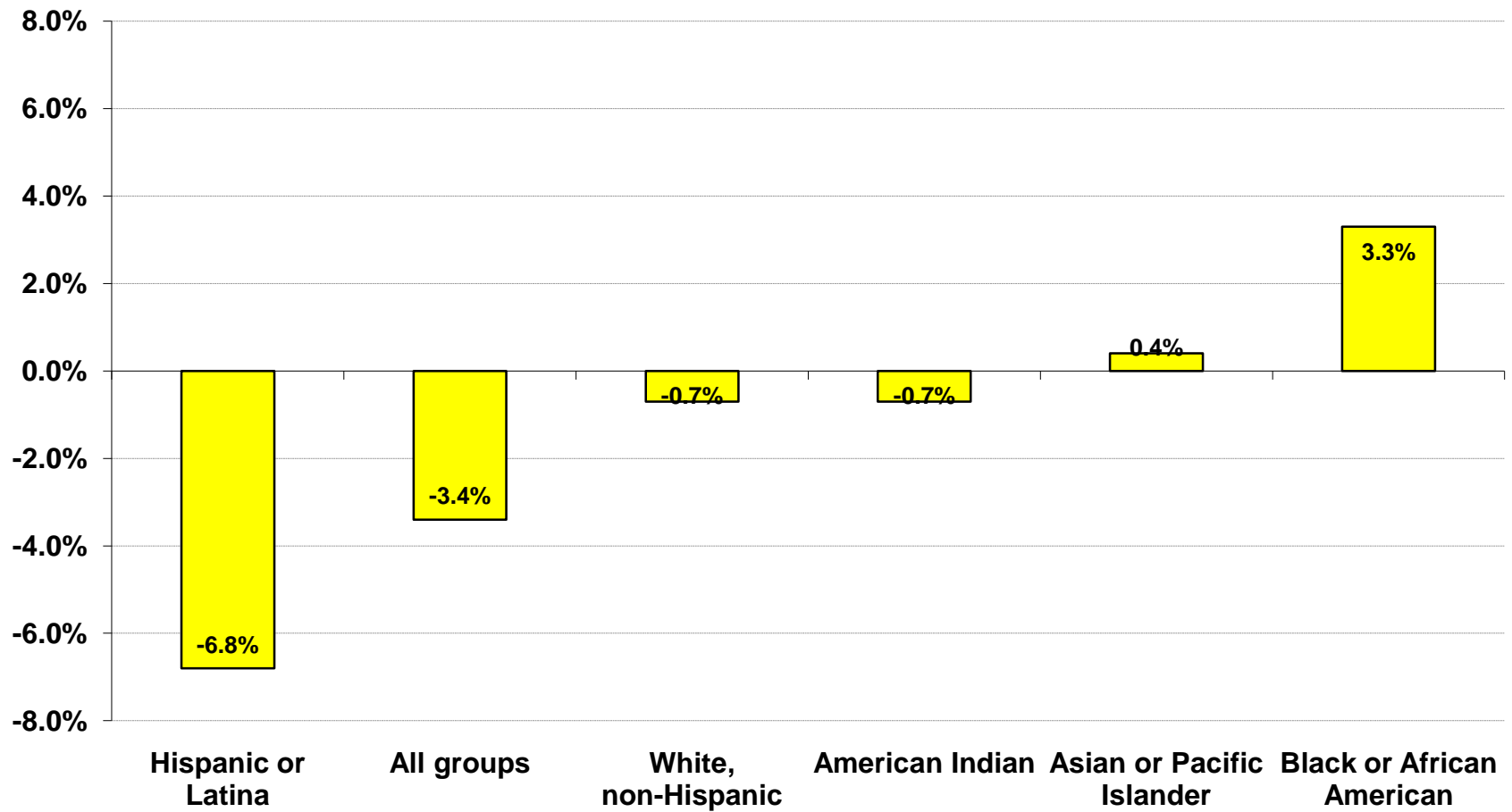
Source: Arizona Vital Statistics, 2009

■ Total resident births    ● Percent change

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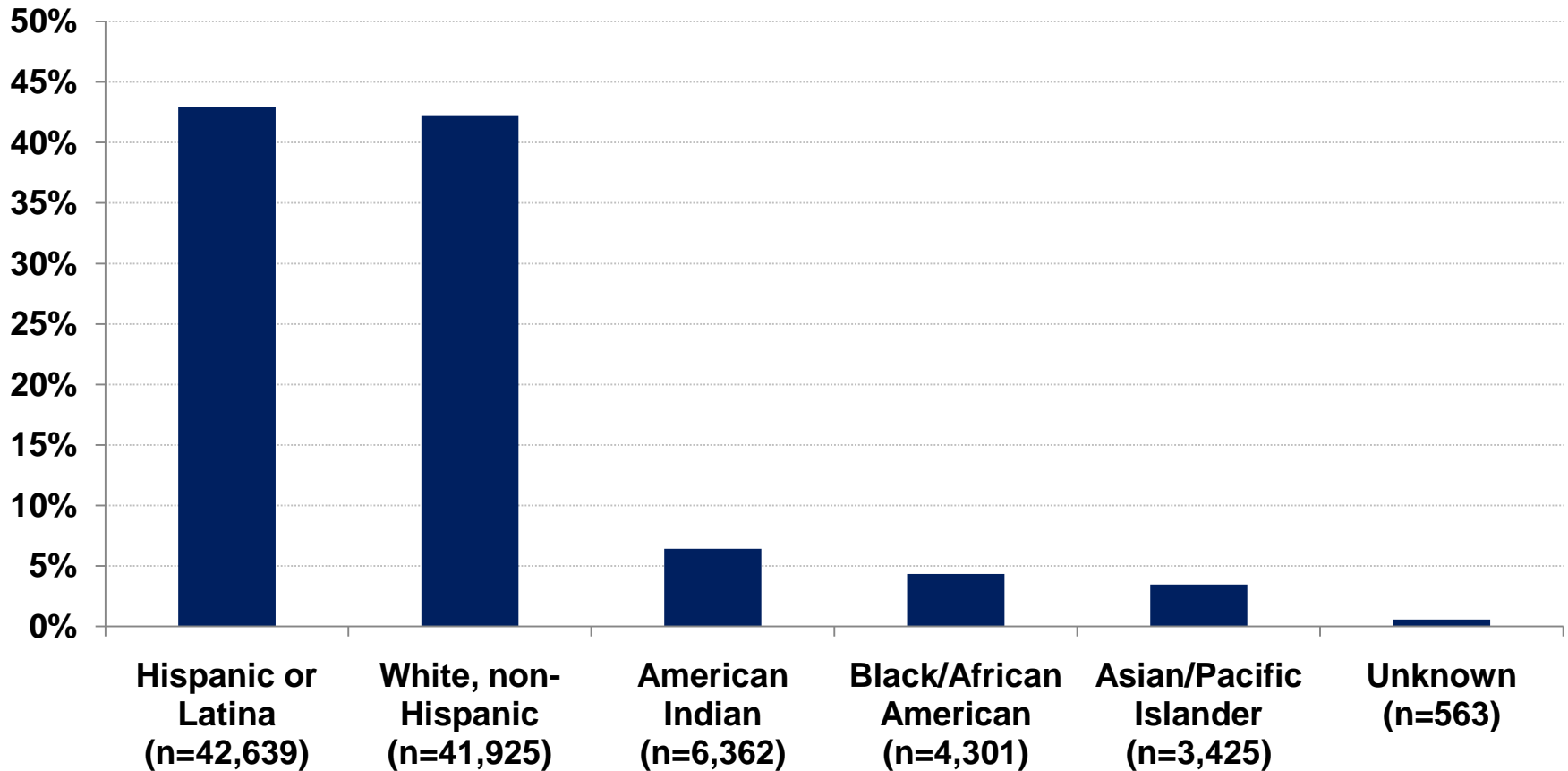
# Percent Change in Total Resident Births from 2007 to 2008 Arizona 2008



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## Percent of Total Births by Mother's Race/Ethnicity Arizona 2008

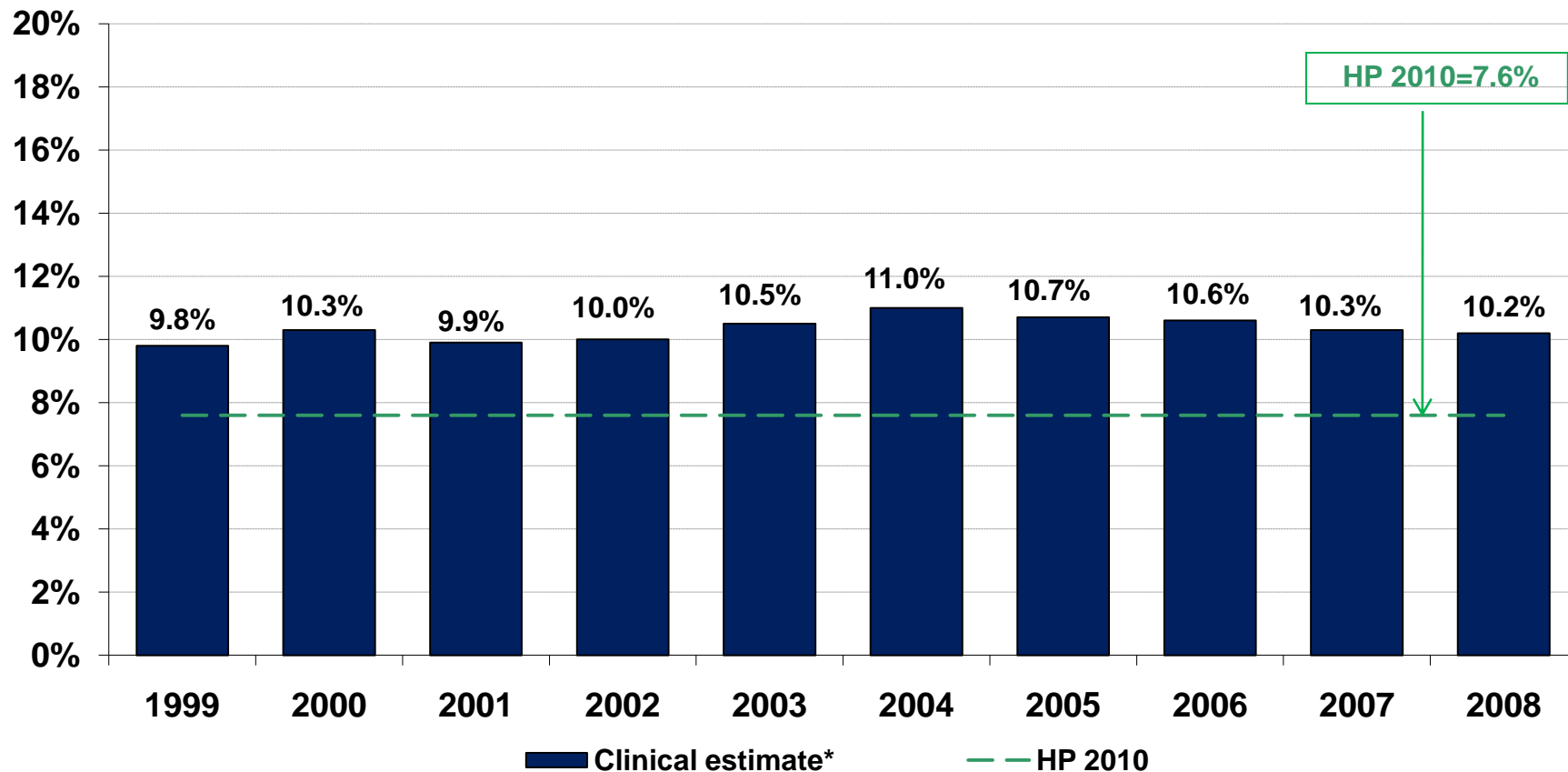


Source: Arizona Vital Statistics, 2008

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Percent of Infants Born Preterm (<37 weeks gestation) by Type of Gestational Estimate  
Arizona 1999-2008



\*prematurity based on physicians estimate of gestational age

\*\*prematurity based on mother's recall date of last menses

Source: National Center for Health Statistics and Arizona Vital Statistics, 2008

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## Preterm Births (< 37 weeks)\*, Arizona 2003-2008

Race/Ethnicity	2003	2004	2005	2006	2007	2008
<i>White non-Hispanic</i>	11.0%	11.4%	10.9%	10.5%	10.4%	10.1%
Black/African American	11.7%	11.6%	12.6% <sup>†</sup>	12.7% <sup>†</sup>	12.8% <sup>†</sup>	11.7% <sup>†</sup>
American Indian/Alaskan Native	9.8% <sup>†</sup>	10.9%	10.6%	11.7% <sup>†</sup>	10.4%	9.8%
Asian/Pacific Islander	10.8%	11.0%	10.2%	10.4%	9.6%	10.0%
Hispanic/Latina	9.8% <sup>†</sup>	10.3% <sup>†</sup>	10.1% <sup>†</sup>	10.1%	9.8%	9.9%
<b>Mother's Age</b>						
<i>18-34 years</i>	10.0%	10.5%	10.2%	10.1%	9.9%	9.7%
<18 years	10.9%	11.8% <sup>†</sup>	12.1% <sup>†</sup>	11.9% <sup>†</sup>	10.7%	11.0% <sup>†</sup>
40 years +	16.9% <sup>†</sup>	17.6% <sup>†</sup>	16.8% <sup>†</sup>	15.0% <sup>†</sup>	16.4% <sup>†</sup>	17.2% <sup>†</sup>
<b>Number of Births</b>						
<i>Singleton</i>	8.9%	9.2%	9.2%	9.0%	8.7%	8.5%
Multiple	64.7% <sup>†</sup>	70.3% <sup>†</sup>	64.6% <sup>†</sup>	67.6% <sup>†</sup>	67.4% <sup>†</sup>	65.5% <sup>†</sup>
<b>Payee for Birth</b>						
<i>Private Insurance</i>	10.5%	10.8%	10.5%	10.3%	10.2%	10.1%
AHCCCS	10.5%	11.4% <sup>†</sup>	10.9%	10.8%	10.4%	10.2%
<b>Area of Residence</b>						
<i>Urban County</i>	10.6%	11.0%	10.8%	10.7%	10.3%	10.2%
Rural County	10.0%	10.9%	10.0% <sup>†</sup>	10.0% <sup>†</sup>	10.0%	9.7%

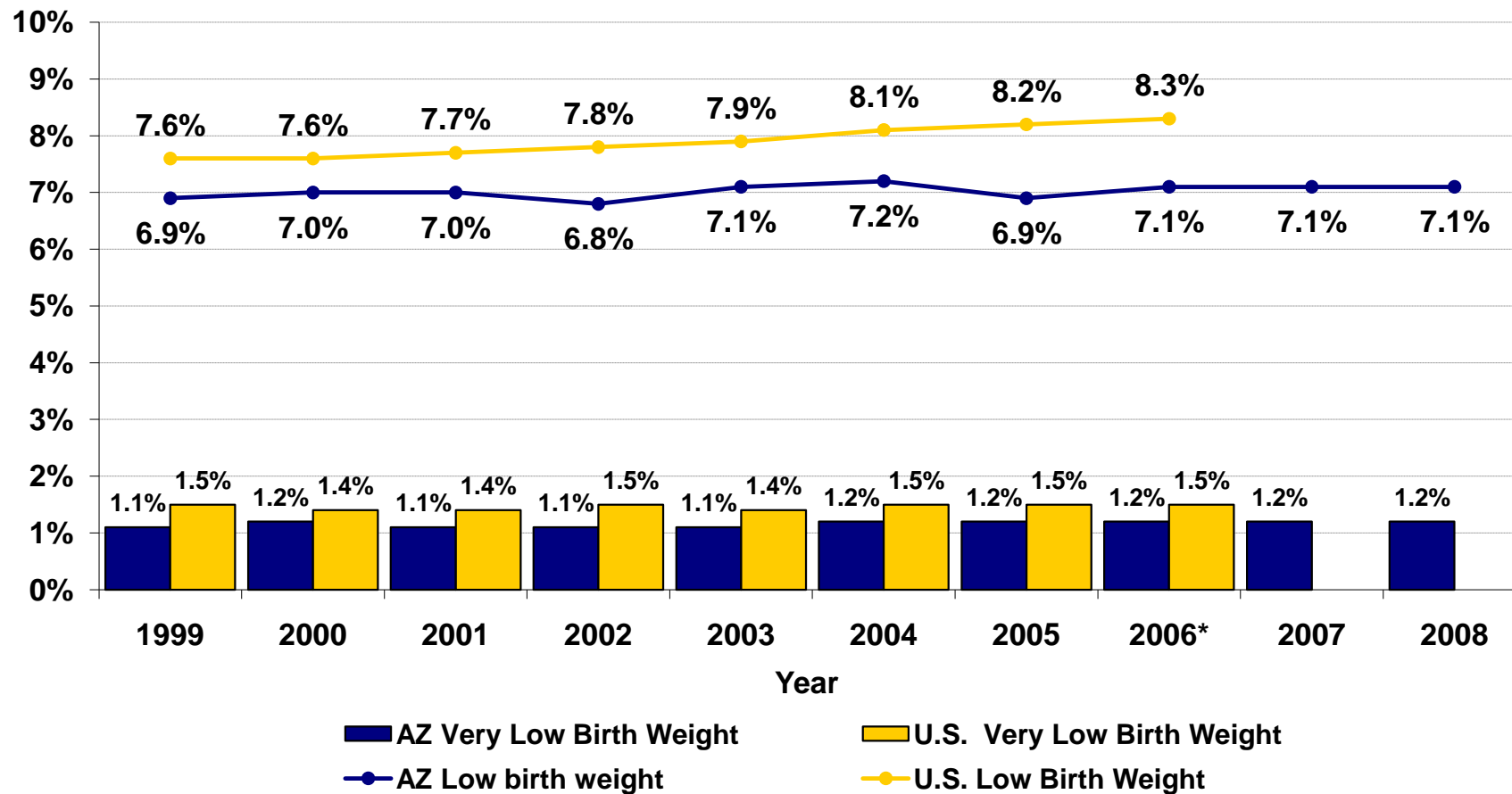
\*Physician's estimate of gestational age

*Italicized category is reference group*

<sup>†</sup>statistically significant difference from reference group at  $\alpha < 0.05$

Source: Health Status and Vital Statistics, 2003-2008

# Low Birth Weight (<2,500 grams) and Very Low Birth Weight (<1,500 grams) U.S. and Arizona 1999-2008



\*latest year of national data available at time of data collection.

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## Low Birth Weight (< 2,500 grams), Arizona 2003-2008

Race/Ethnicity	2003	2004	2005	2006	2007	2008
<i>White non-Hispanic</i>	6.9%	7.2%	6.9%	6.7%	7.1%	6.9%
Black/African American	11.7% <sup>†</sup>	11.6% <sup>†</sup>	12.6% <sup>†</sup>	12.7% <sup>†</sup>	12.8% <sup>†</sup>	11.7% <sup>†</sup>
American Indian/AK Native	6.8%	7.2%	7.3%	7.4%	6.6%	6.7%
Asian/Pacific Islander	8.5% <sup>†</sup>	8.0%	8.0%	8.5% <sup>†</sup>	8.0%	9.1% <sup>†</sup>
Hispanic/Latina	6.9%	6.8%	6.4%	6.9%	6.6%	6.7%
<b>Mother's Age</b>						
<i>18-34 years</i>	6.8%	6.9%	6.7%	6.8%	6.8%	6.7%
<18 years	8.4% <sup>†</sup>	8.4% <sup>†</sup>	8.4% <sup>†</sup>	8.5% <sup>†</sup>	8.3% <sup>†</sup>	9.1% <sup>†</sup>
40 years +	12.4% <sup>†</sup>	12.2% <sup>†</sup>	9.6% <sup>†</sup>	9.6% <sup>†</sup>	11.4% <sup>†</sup>	11.4% <sup>†</sup>
<b>Number of Births</b>						
<i>Singleton</i>	5.6%	5.6%	5.5%	5.7%	5.6%	5.6%
Multiple	58.3% <sup>†</sup>	59.7% <sup>†</sup>	56.3% <sup>†</sup>	57.8% <sup>†</sup>	60.3% <sup>†</sup>	57.0% <sup>†</sup>
<b>Payee for Birth</b>						
<i>Private Insurance</i>	6.6%	6.7%	6.5%	6.6%	6.8%	6.9%
AHCCCS	7.4% <sup>†</sup>	7.5% <sup>†</sup>	7.2% <sup>†</sup>	7.5% <sup>†</sup>	7.4% <sup>†</sup>	7.2%
<b>Prenatal Care</b>						
1 <sup>st</sup> Trimester	6.9%	7.1%	6.9%	7.1%	7.1%	7.1%
Other or None	8.5% <sup>†</sup>	7.4%	8.4% <sup>†</sup>	9.1% <sup>†</sup>	9.1% <sup>†</sup>	8.9% <sup>†</sup>
<b>Area of Residence</b>						
<i>Urban County</i>	7.0%	7.1%	6.9%	7.0%	7.0%	7.0%
Rural County	7.3%	7.7%	7.4%	7.7%	7.5%	7.5%

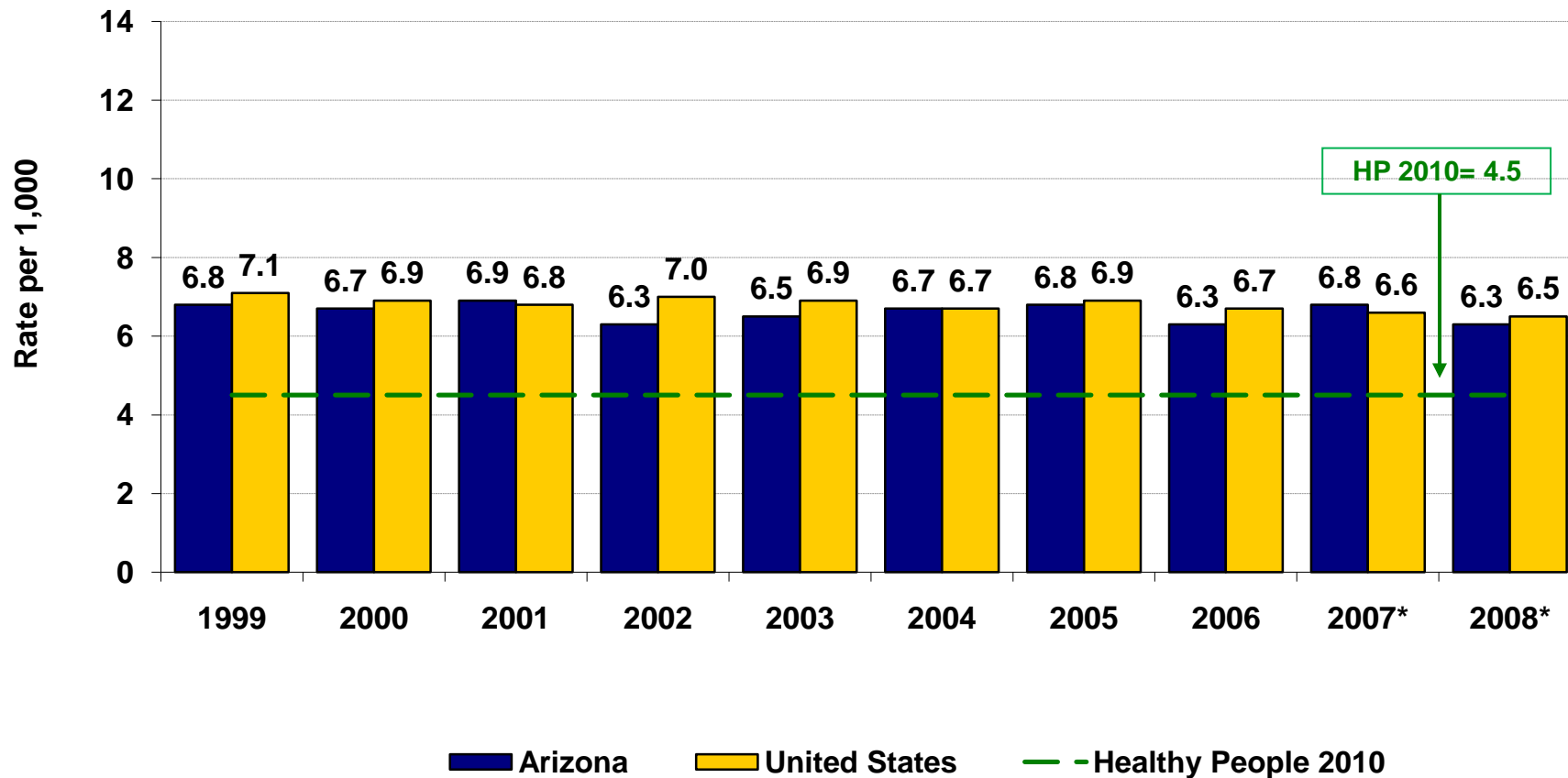
*Italicized category is reference group*

\*\*Urban Counties are Maricopa, Pinal, Pima, and . All other counties are considered rural.

<sup>†</sup>statistically significant difference from reference group at  $\alpha < 0.05$

Source: Health Status and Vital Statistics, 2003-2008

# Rate of Infant Deaths per 1,000 Live Births Arizona and the United States, 1999-2008



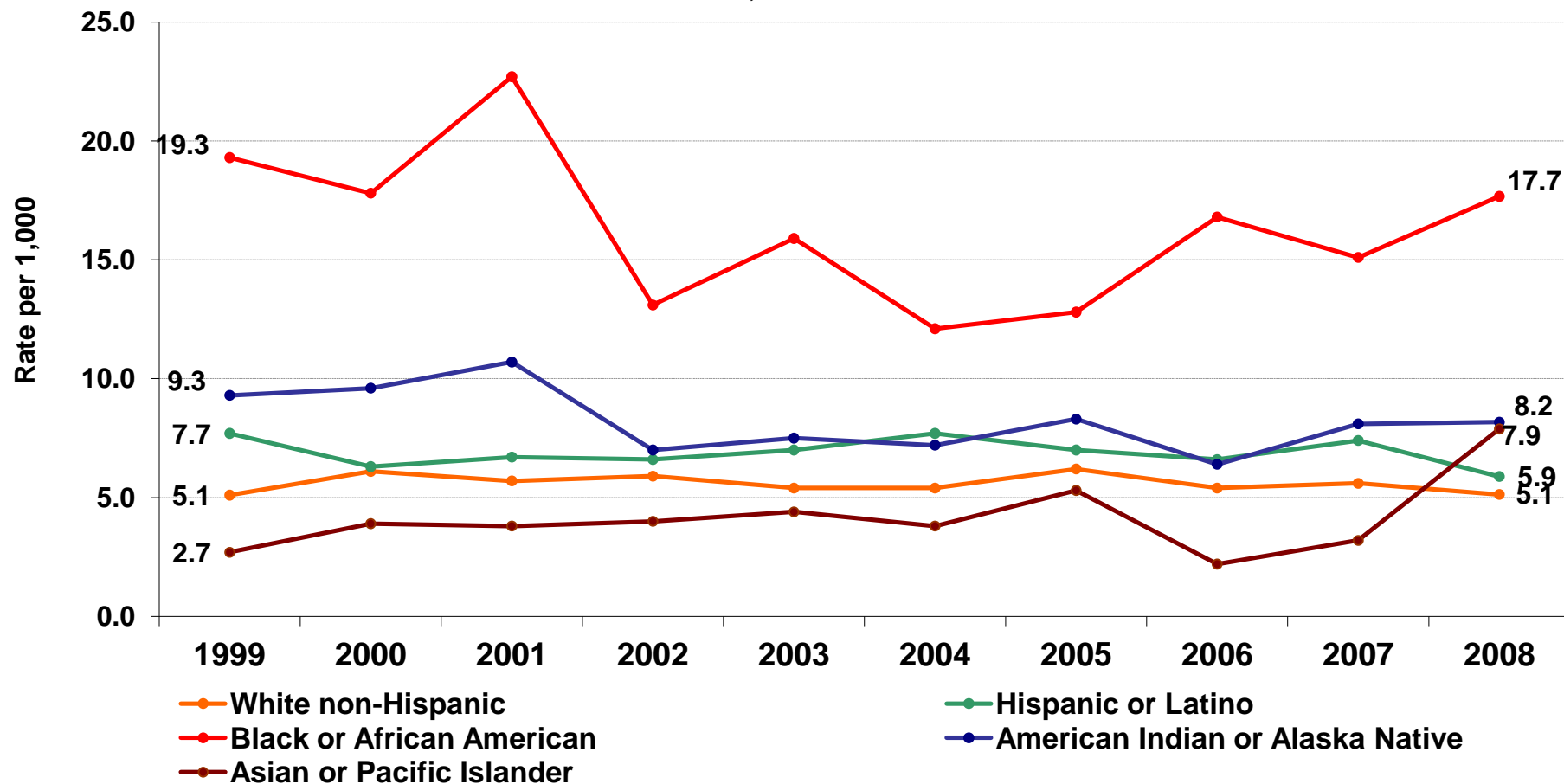
\*Provisional rates for the U.S. in 2007 and 2008

Source: Arizona Health Status and Vital Statistics, 2008

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## Rate of Infant Deaths per 1,000 Live Births by Race and Ethnicity Arizona, 1999-2008

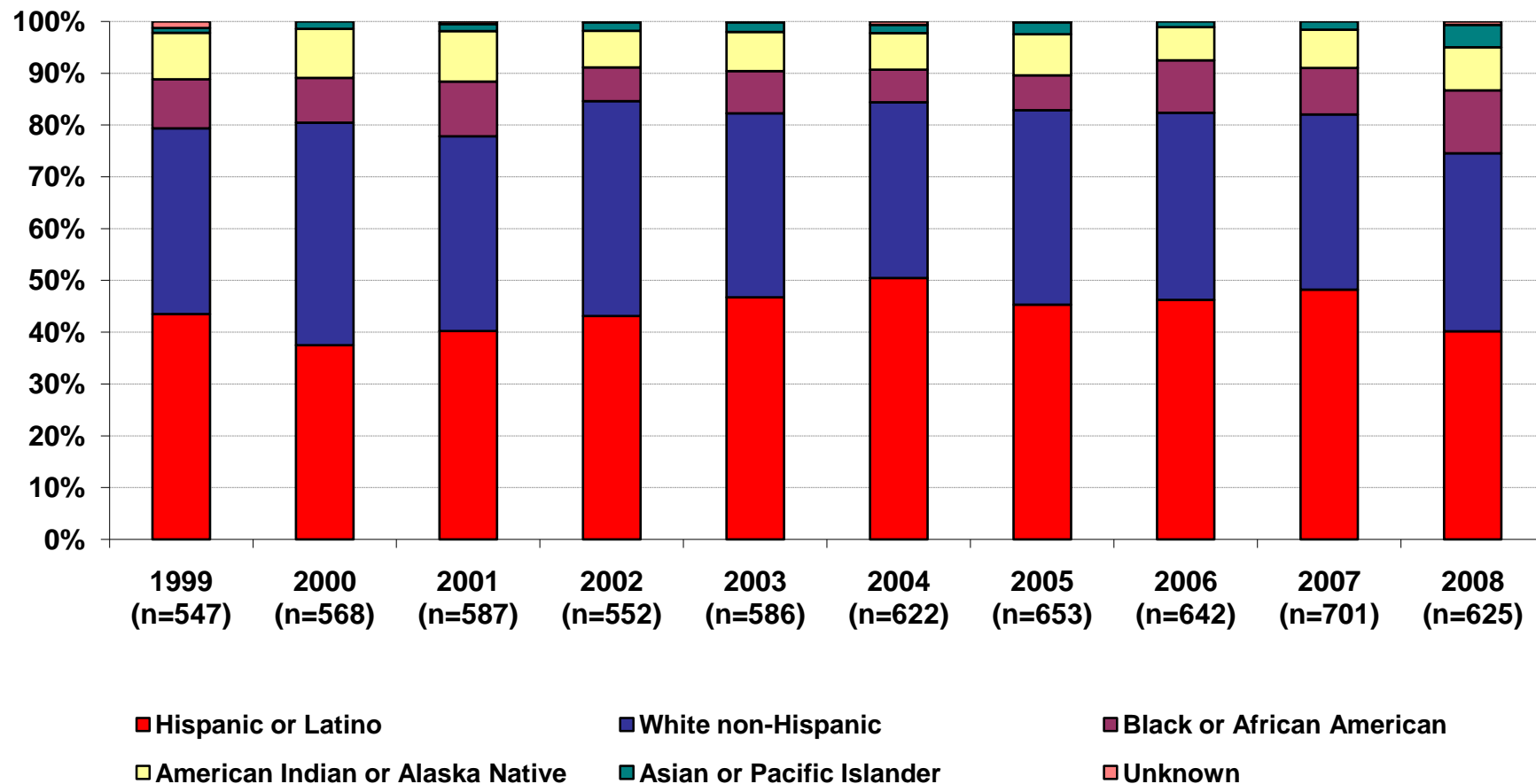


Source: Arizona Health Status and Vital Statistics, 2008

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# Proportion of Total Infant Deaths by Race and Ethnicity Arizona, 1999-2008 (n= 6,083)

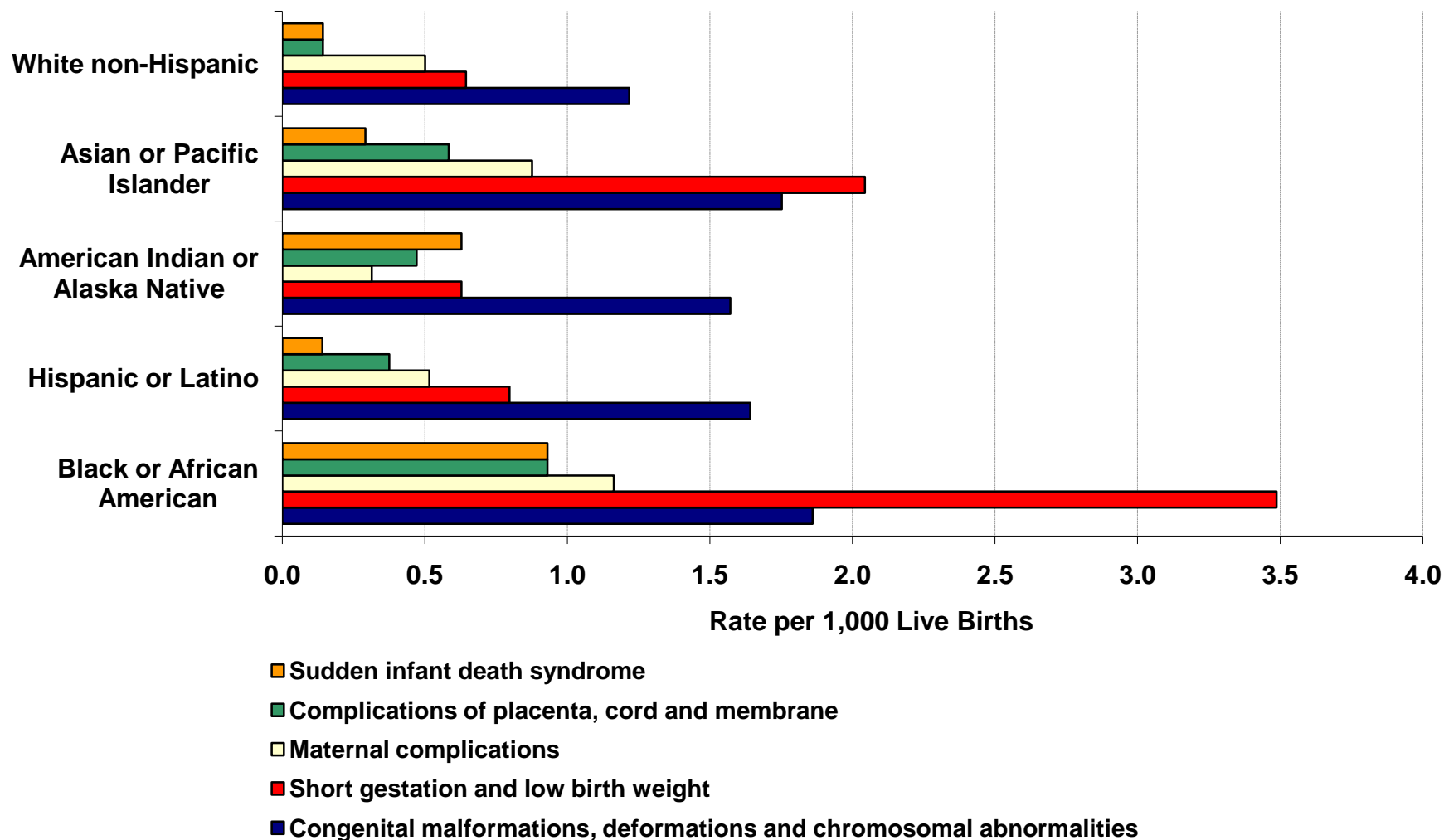


Source: Arizona Health Status and Vital Statistics, 2008

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## Infant Mortality Rates for the Five Leading Causes of Death by Race and Ethnicity, Arizona, 2008



Source: Arizona Health Status and Vital Statistics, 2008

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## Neonatal and Postneonatal Mortality Rates and Percent Postneonatal Deaths 1999-2008

<b>UNITED STATES</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Neonatal mortality	4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	NA	NA
Postneonatal mortality	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.2	NA	NA
Percent postneonatal mortality	33.0	33.3	33.3	33.8	33.3	32.8	33.3	32.8	NA	NA
<b>ARIZONA STATEWIDE</b>										
Neonatal mortality	4.5	4.3	4.5	4.1	4.3	4.5	4.4	4.3	4.7	4.2
Postneonatal mortality	2.3	2.4	2.4	2.2	2.2	2.2	2.4	2.0	2.2	2.1
Percent postneonatal mortality	33.8	35.9	34.8	35.0	33.8	32.8	35.3	31.5	32.4	33.3
<b>URBAN COUNTIES</b>										
Neonatal mortality	4.5	4.2	4.7	4.2	4.4	4.7	4.3	4.3	4.6	4.3
Postneonatal mortality	2.3	2.3	2.2	2.2	2.0	2.0	2.2	2.0	2.0	2.0
Percent postneonatal mortality	33.8	35.4	31.9	34.4	31.5	29.9	33.8	31.3	30.3	31.8
<b>RURAL COUNTIES</b>										
Neonatal mortality	4.6	4.6	3.4	3.8	3.8	3.8	5.0	4.3	4.8	3.5
Postneonatal mortality	2.1	3.1	2.9	2.4	3.3	3.1	3.6	2.0	3.3	2.7
Percent postneonatal mortality	31.3	40.3	46.0	38.7	46.2	44.9	41.9	32.6	41.3	43.6

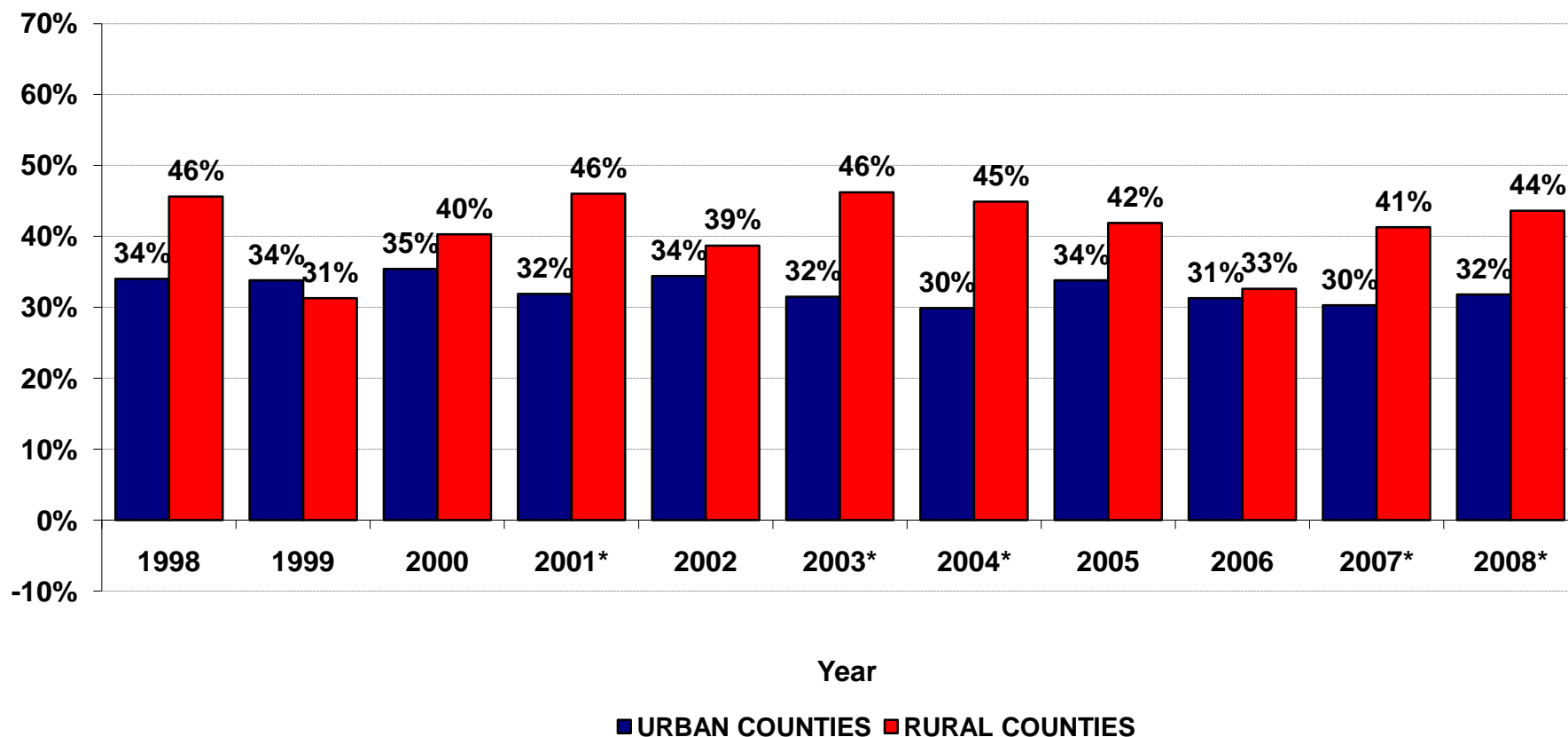
Source: Health Status and Vital Statistics, 2008

Note: Urban = Maricopa, Pima, Pinal and . The remaining counties comprise 's rural areas. Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

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## Percent of Infant Mortality Rate that is Postneonatal Mortality Arizona's Urban and Rural Counties, 1999-2008



\* Significantly different at  $p < 0.05$ .

Source: Arizona Health Status and Vital Statistics, 2008

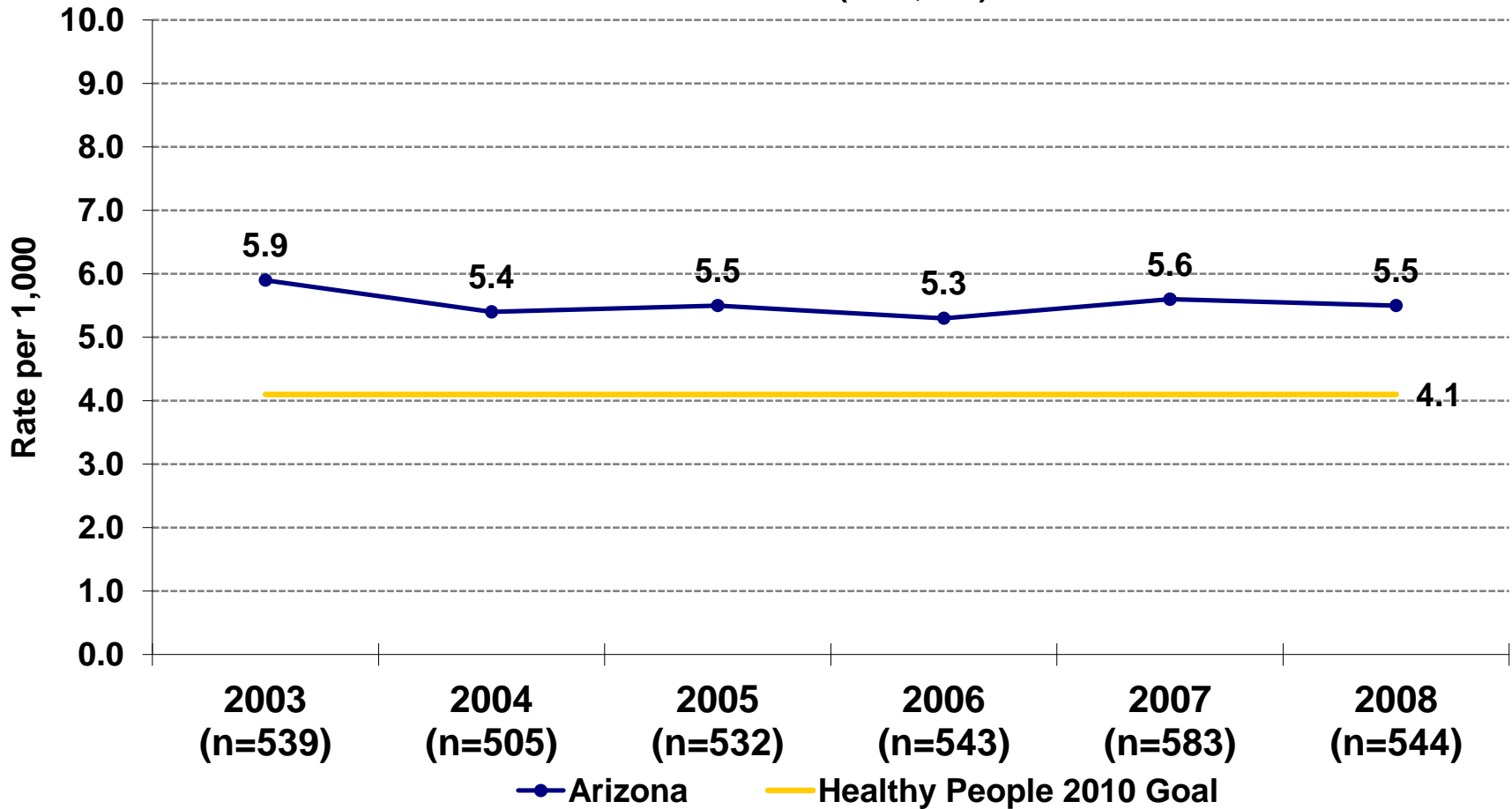
Urban Counties are Maricopa, Pima, Pinal and Yuma. The remaining counties comprise Arizona's rural areas.

Source: Arizona Health Status and Vital Statistics, 2008

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**Stillbirth Rates (per 1,000 live births + fetal deaths\*)**  
**Arizona 2003-2008 (n= 3,246)**



\*fetal deaths of 20 weeks or more gestation

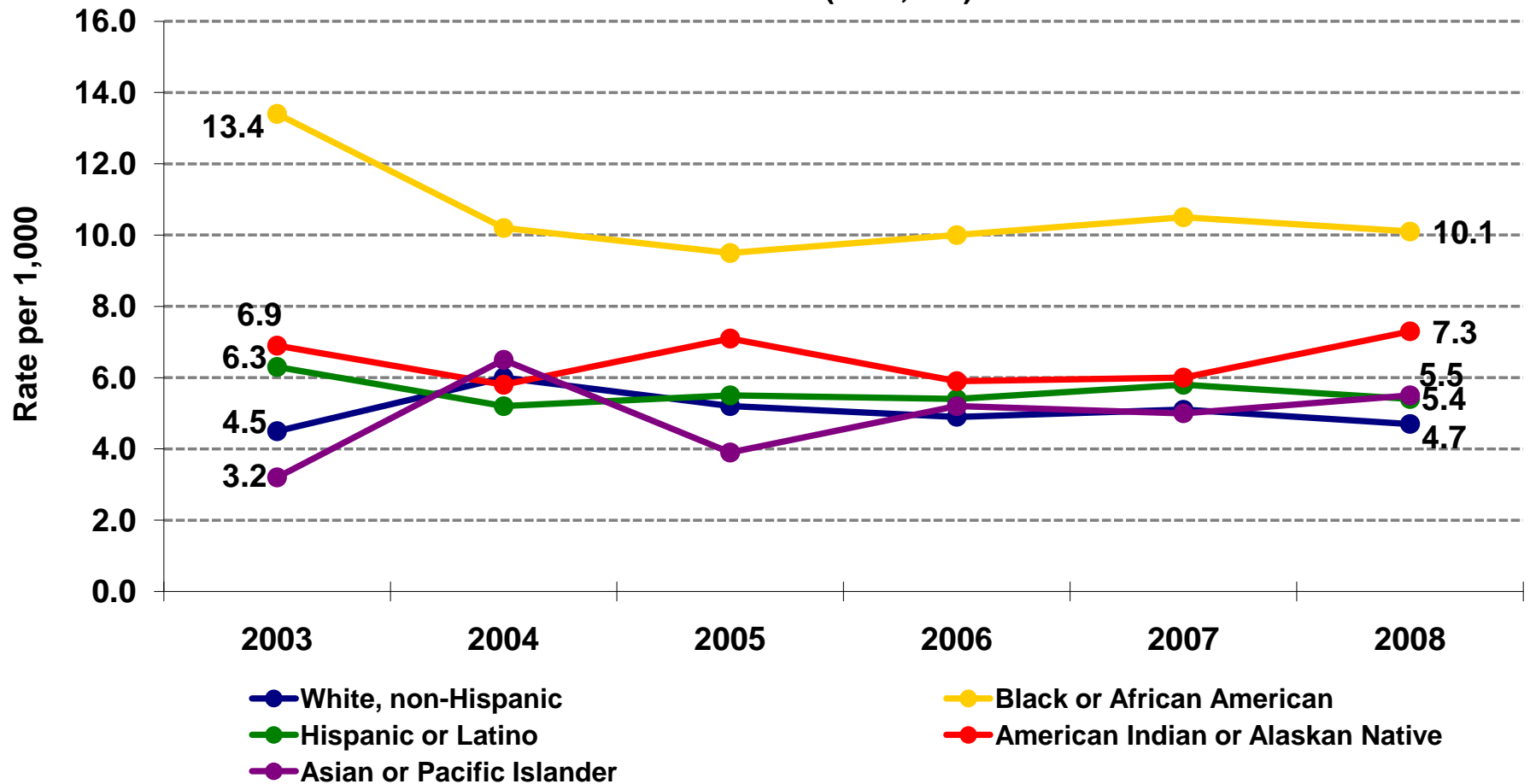
Source: Arizona Fetal Death Certificate Data, 2003-2008

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# Stillbirth Rates (per 1,000 live births+fetal deaths) by Race/Ethnicity, Arizona 2003-2008 (n= 3,231)\*



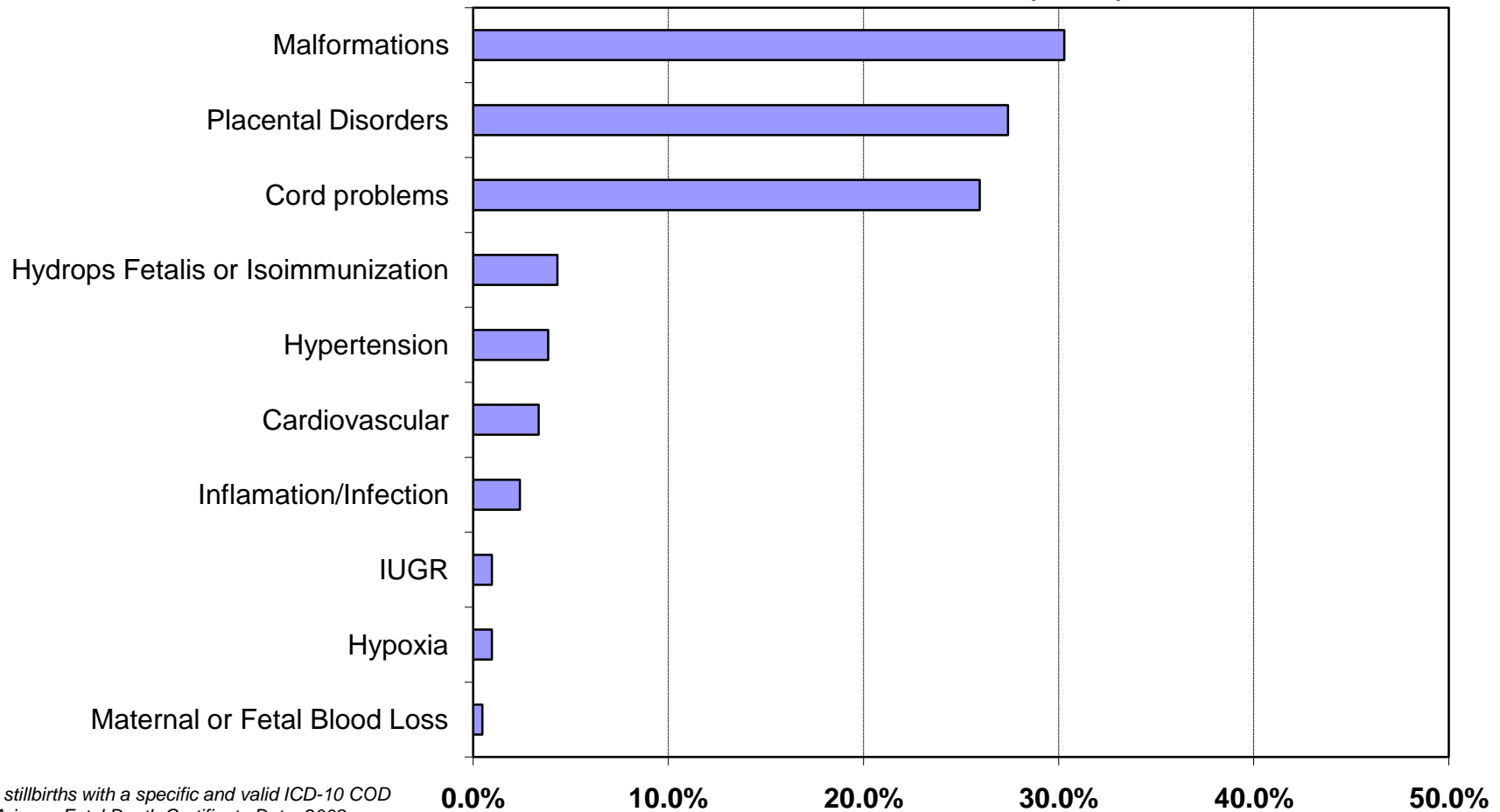
\*excludes unknown race/ethnicity

Source: Arizona Fetal Death Certificate Data, 2003-2008

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**Specific and Valid Causes of Stillbirth\***  
**Arizona 2008 (n=208)**



*\*for those stillbirths with a specific and valid ICD-10 COD*  
*Source: Arizona Fetal Death Certificate Data, 2008*

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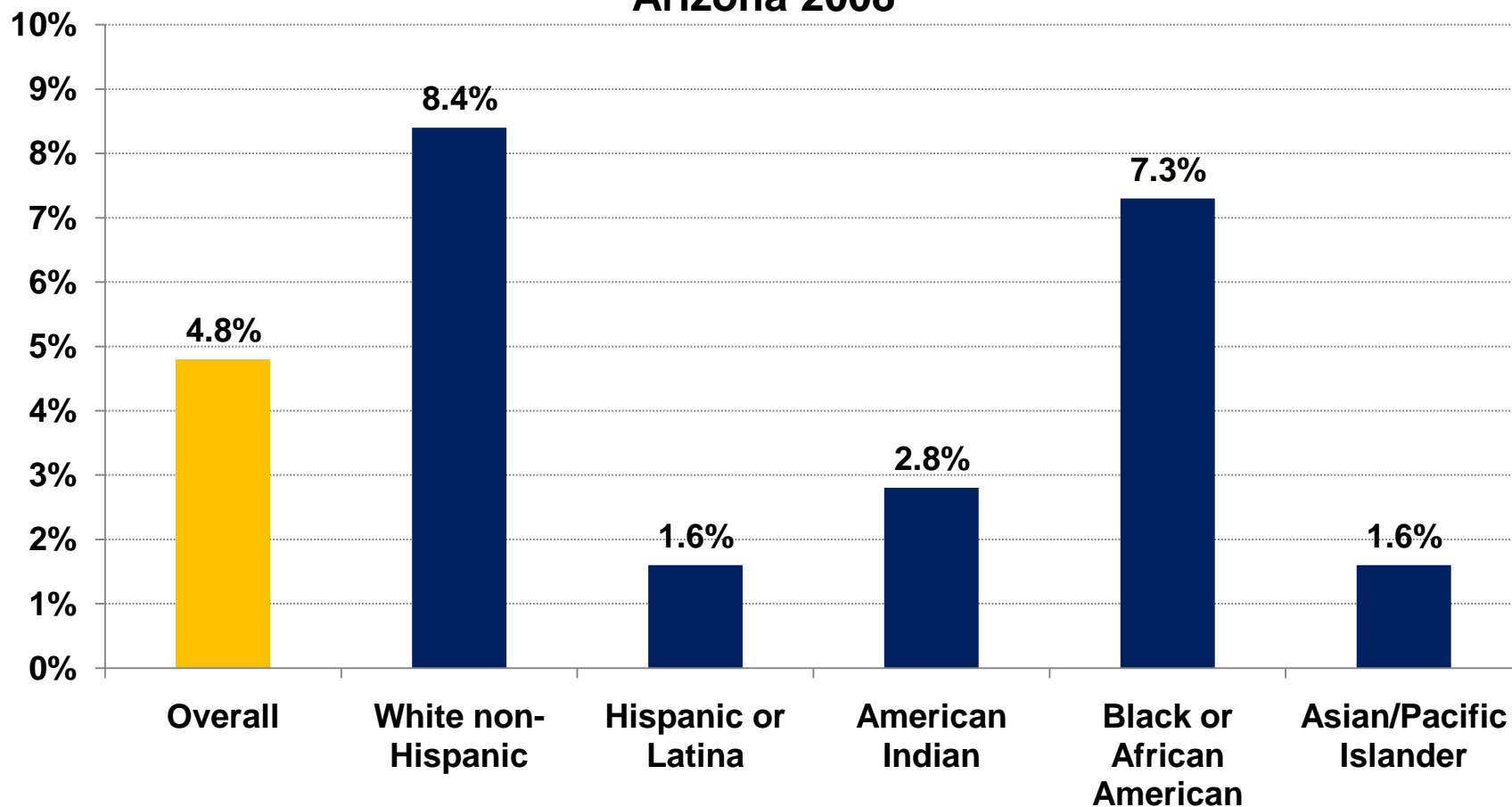
# **Pregnant Women and Infants**

## ***Health Determinants, Risk and Protective Factors***

Examples include;

- 1) Tobacco use during pregnancy
- 2) Cesarean Deliveries
- 3) Medical conditions during pregnancy
- 4) Breastfeeding

## Reported Smoking During Pregnancy by Race/Ethnicity Arizona 2008

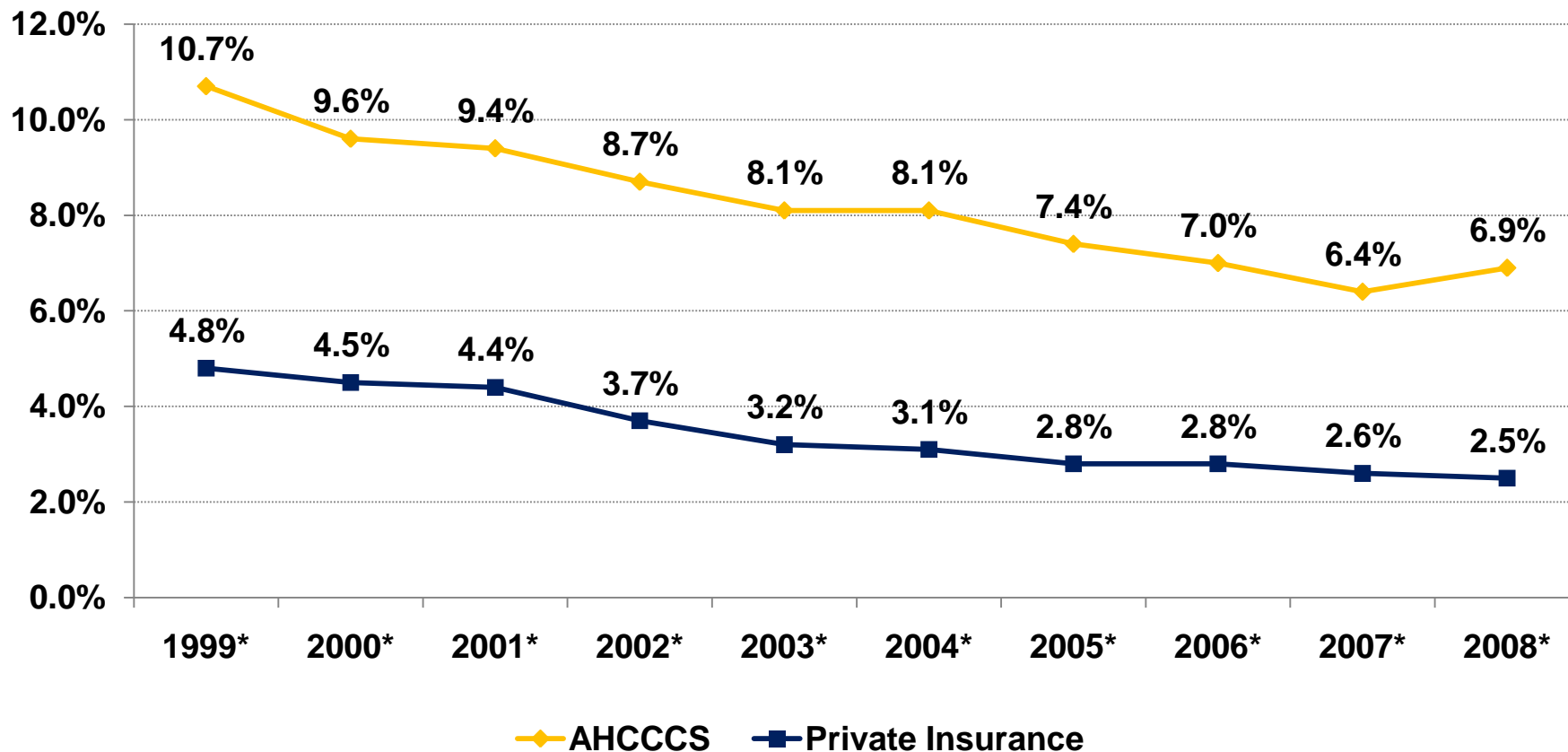


Source: Arizona Vital Statistics, 2008

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## Mothers Who Reported Smoking Tobacco During Pregnancy by Insurance Status Arizona 1999-2008



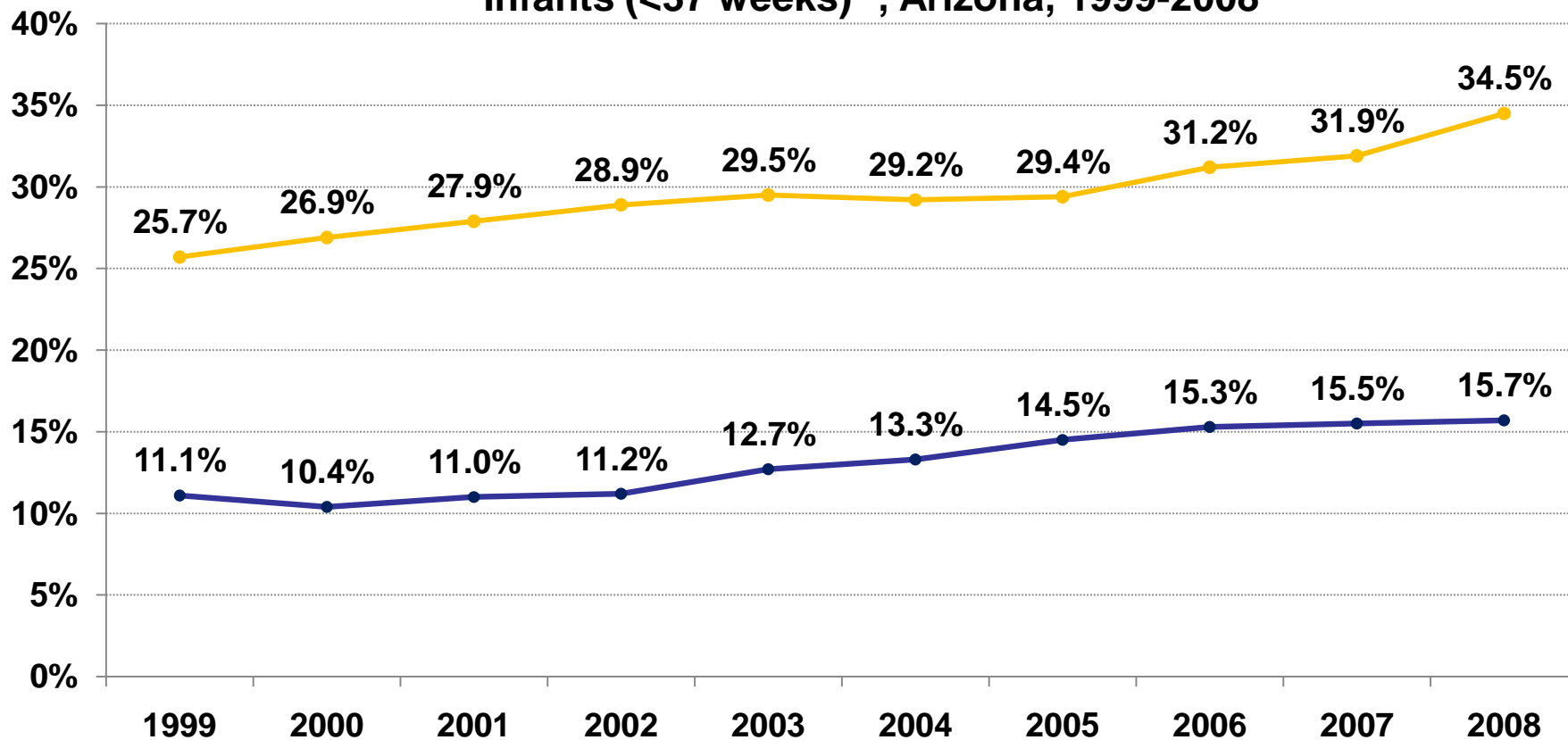
\*significant difference at  $\alpha=0.05$

Source: Arizona Birth Certificates, 1999-2008

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## Primary Cesarean Sections for all Term (37-41 weeks)\* and Preterm Infants (<37 weeks)\* , Arizona, 1999-2008



\*clinical estimate

Source: Arizona Birth Certificate Data, 1999-2008

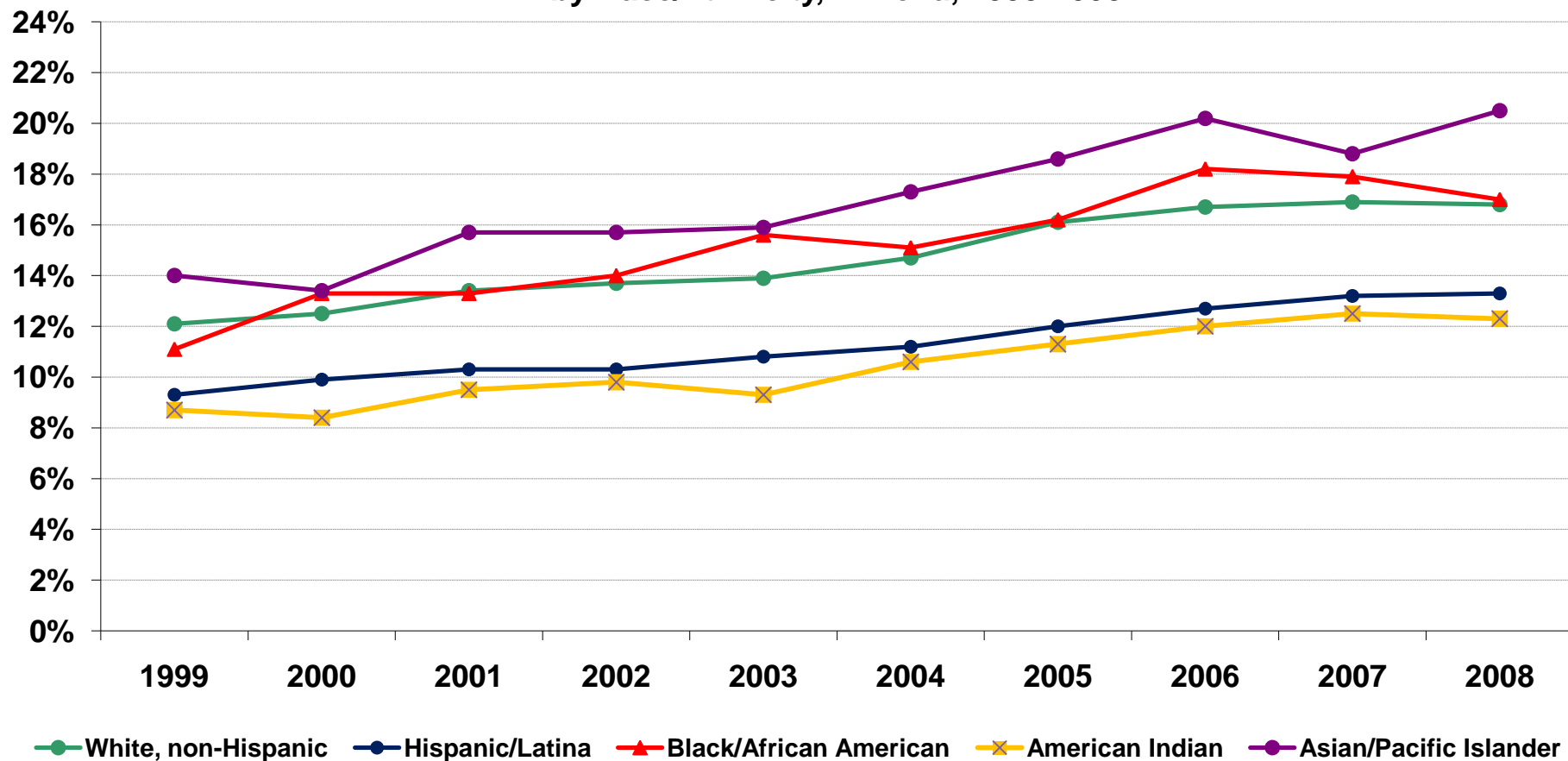
—●— Term (37-41 weeks)

—●— Preterm (<37 weeks)

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# Primary Cesarean Sections for Singleton Term Births (37-41 weeks) by Race/Ethnicity, Arizona, 1999-2008

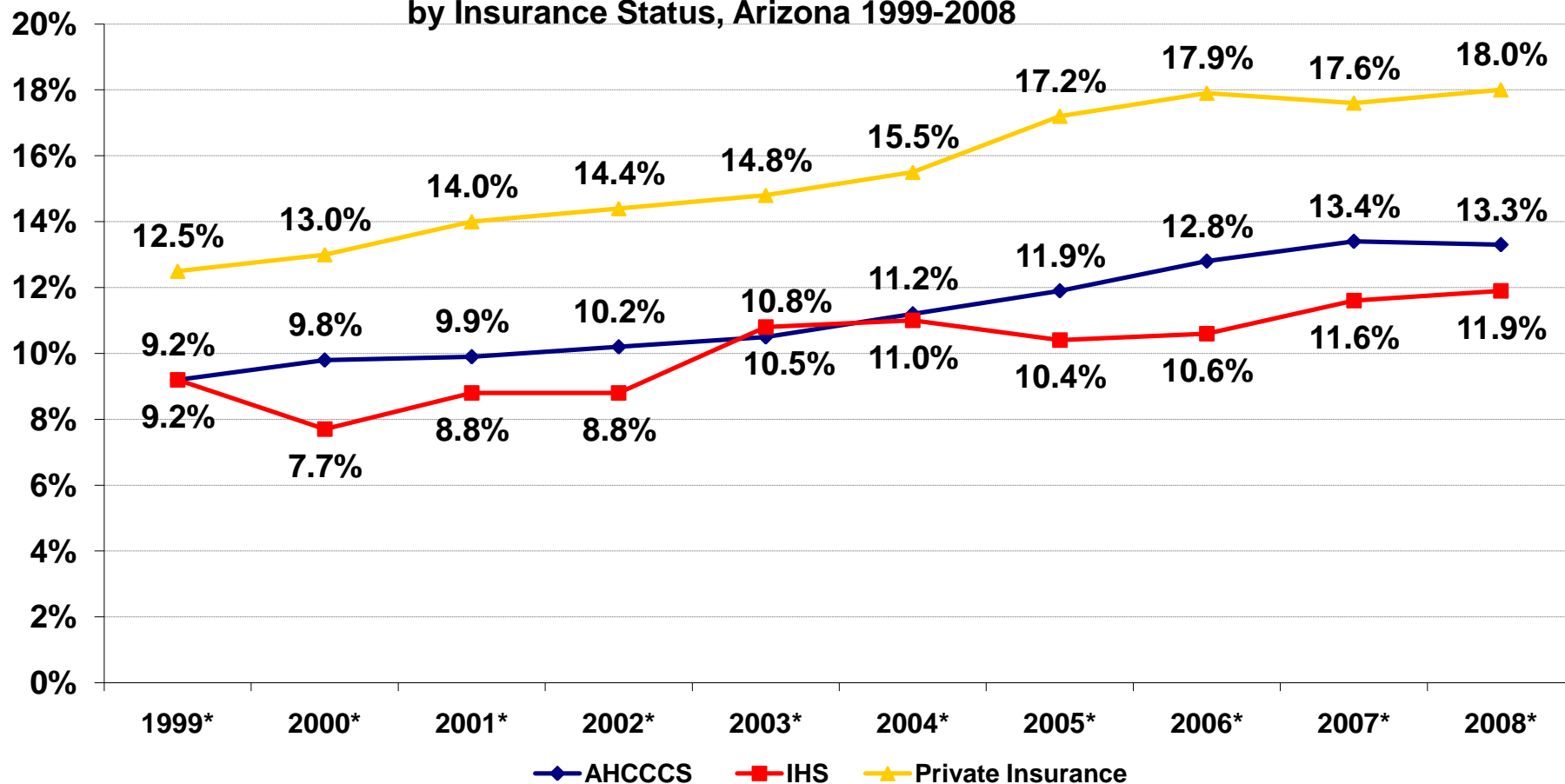


Source: Arizona Birth Certificate data, 1999-2008

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# Primary Cesarean Sections for Singleton Term Births (37-41 weeks) by Insurance Status, Arizona 1999-2008



\*significant difference between private insurance and public insurance at  $\alpha=0.05$

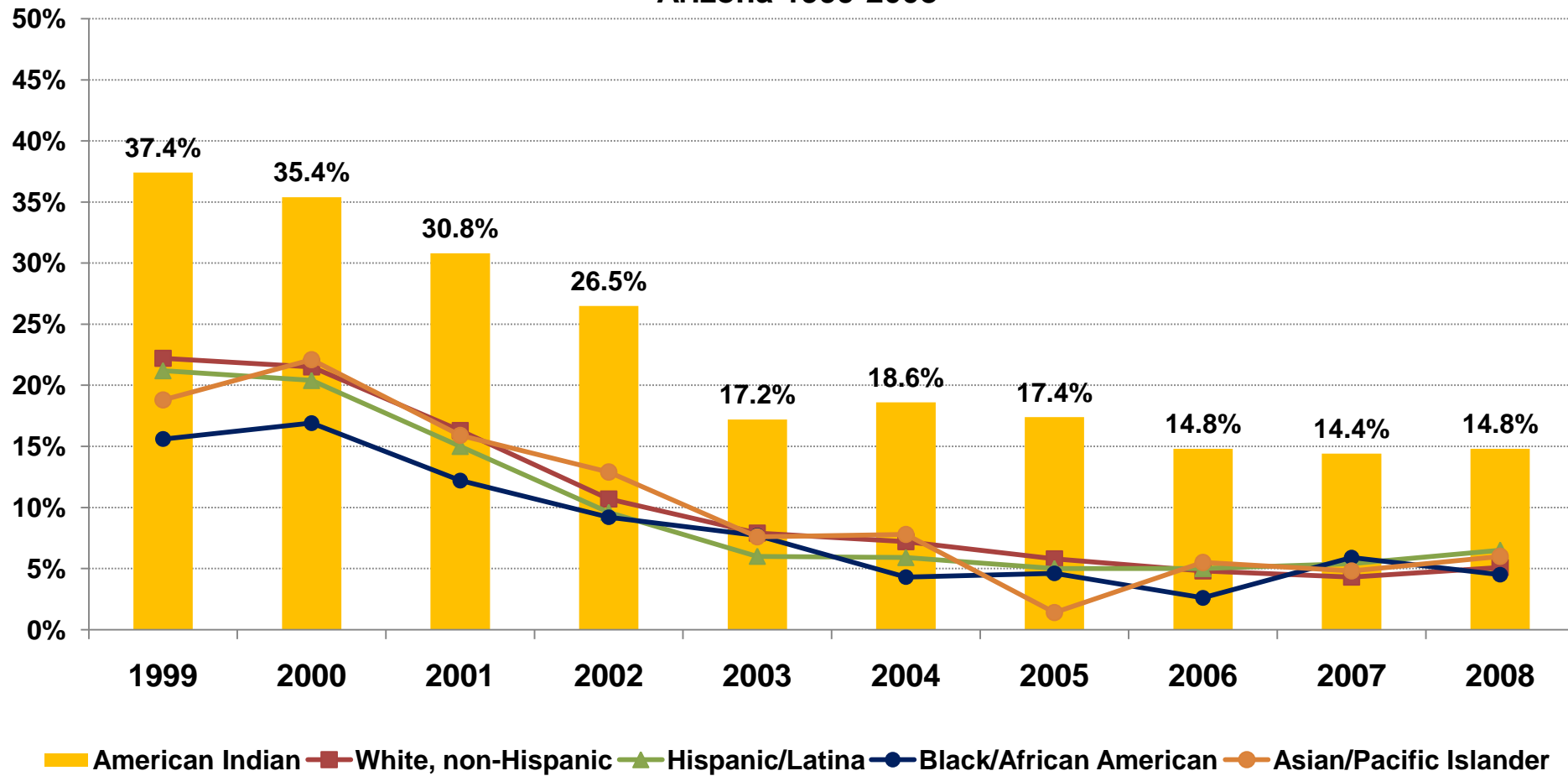
Source: Arizona Birth Certificate data, 1999-2008

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## Vaginal Birth After Cesarean Section Arizona 1999-2008

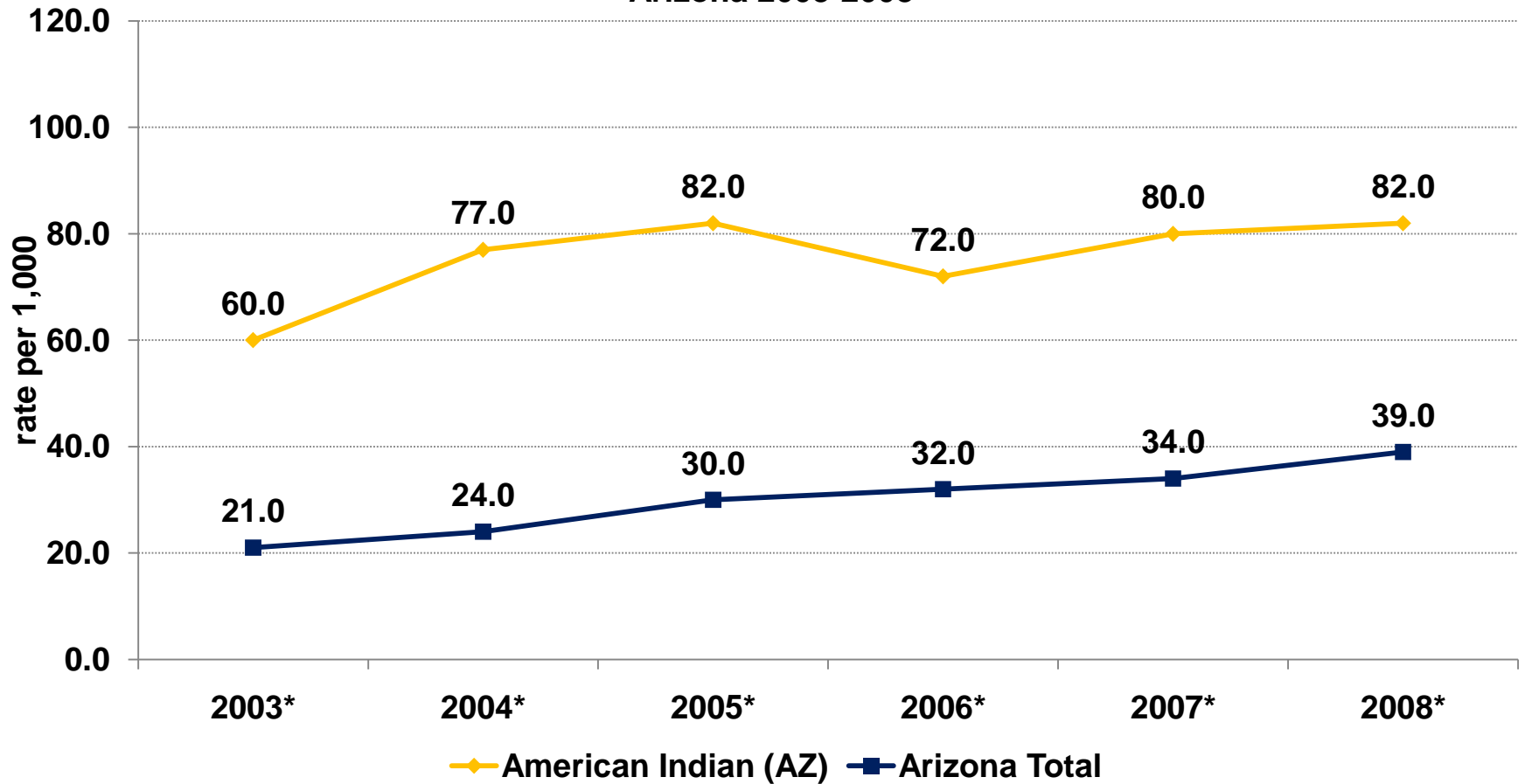


Source: Arizona Birth Certificate Data, 1999-2008

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## Any Diabetes During Pregnancy per 1,000 Live Births Arizona 2003-2008



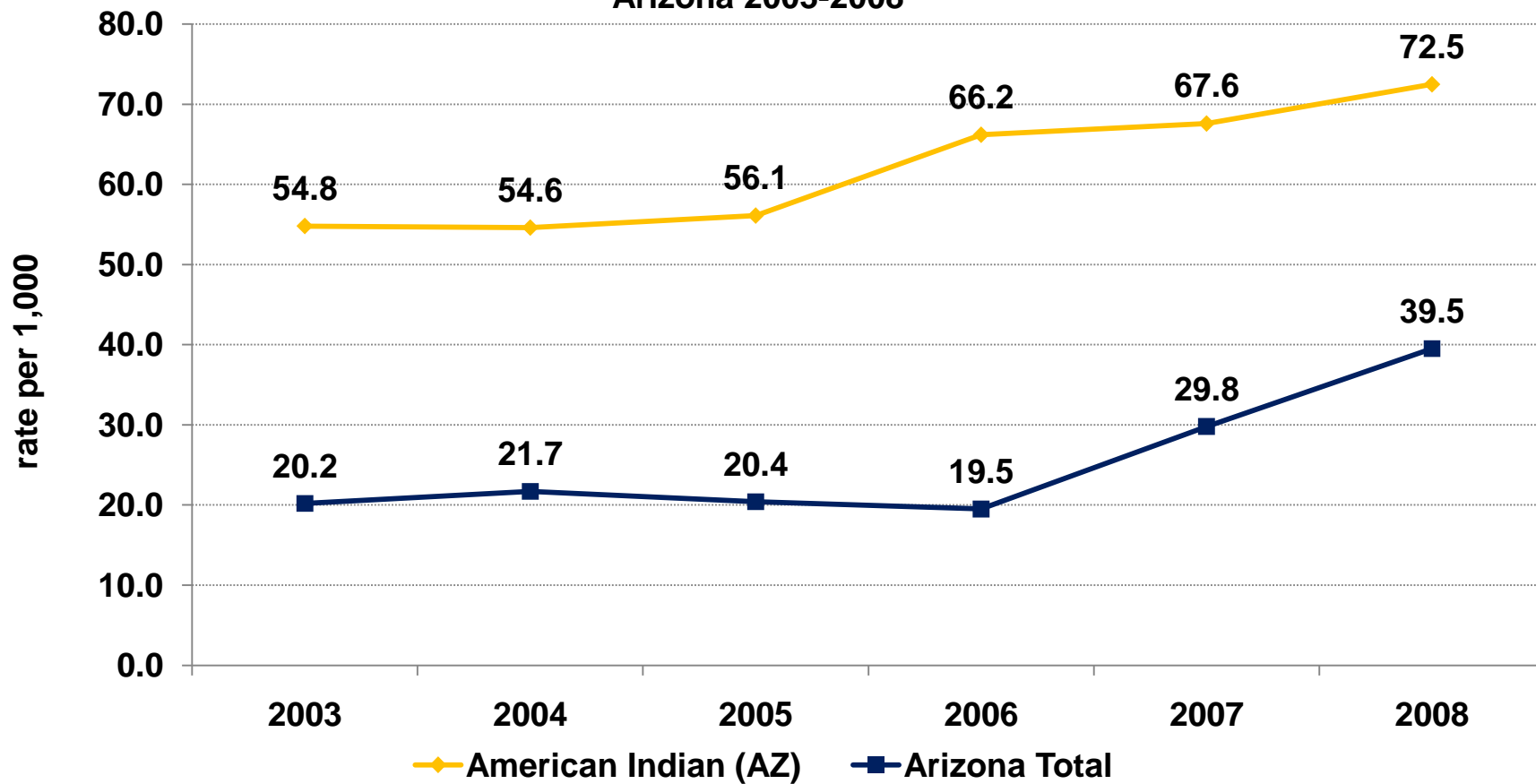
\*significant difference at  $\alpha=0.05$

Source: Arizona Vital Statistics, 2003-2008

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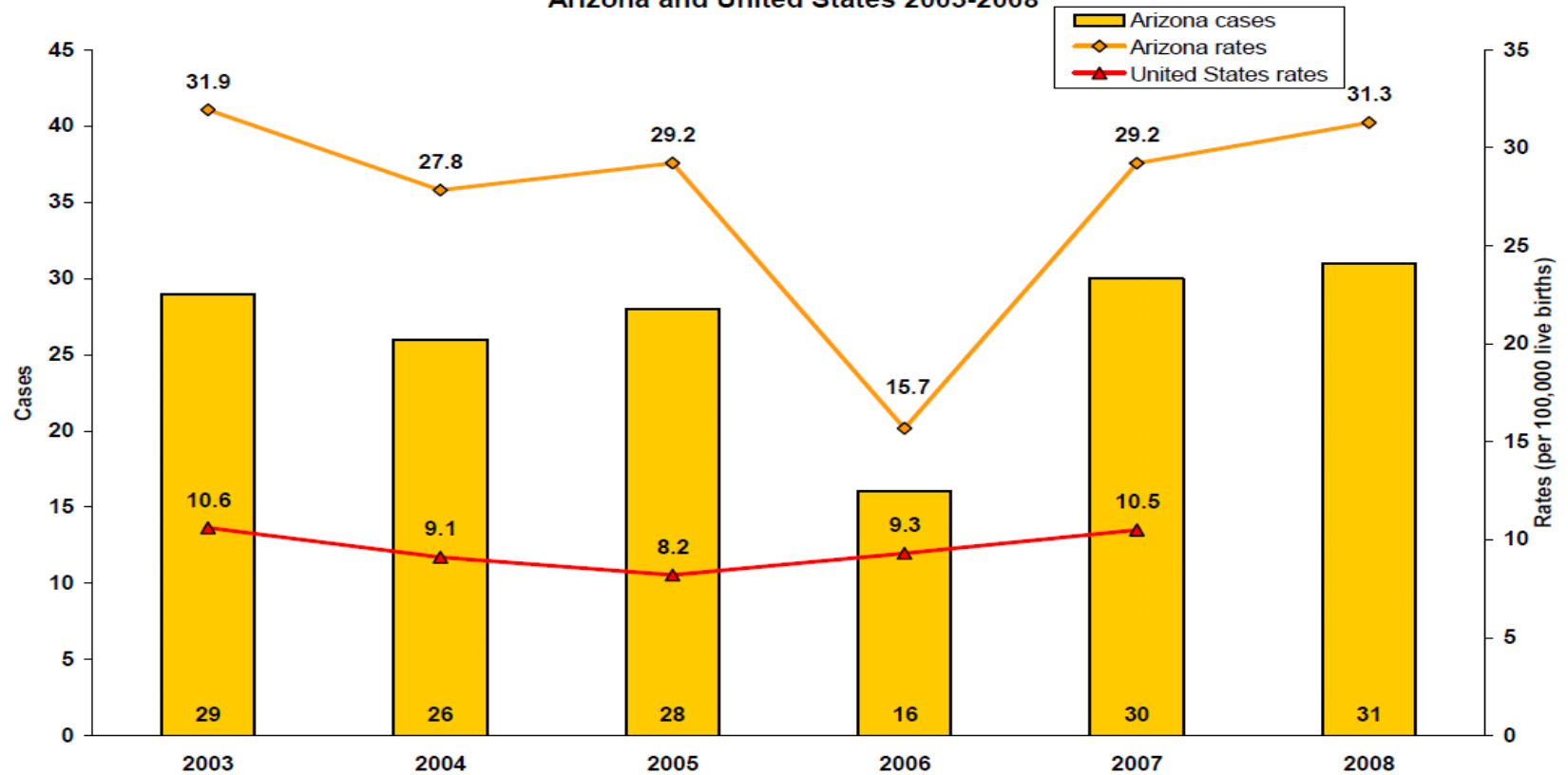
# Anemia During Pregnancy per 1,000 Live Births Arizona 2003-2008



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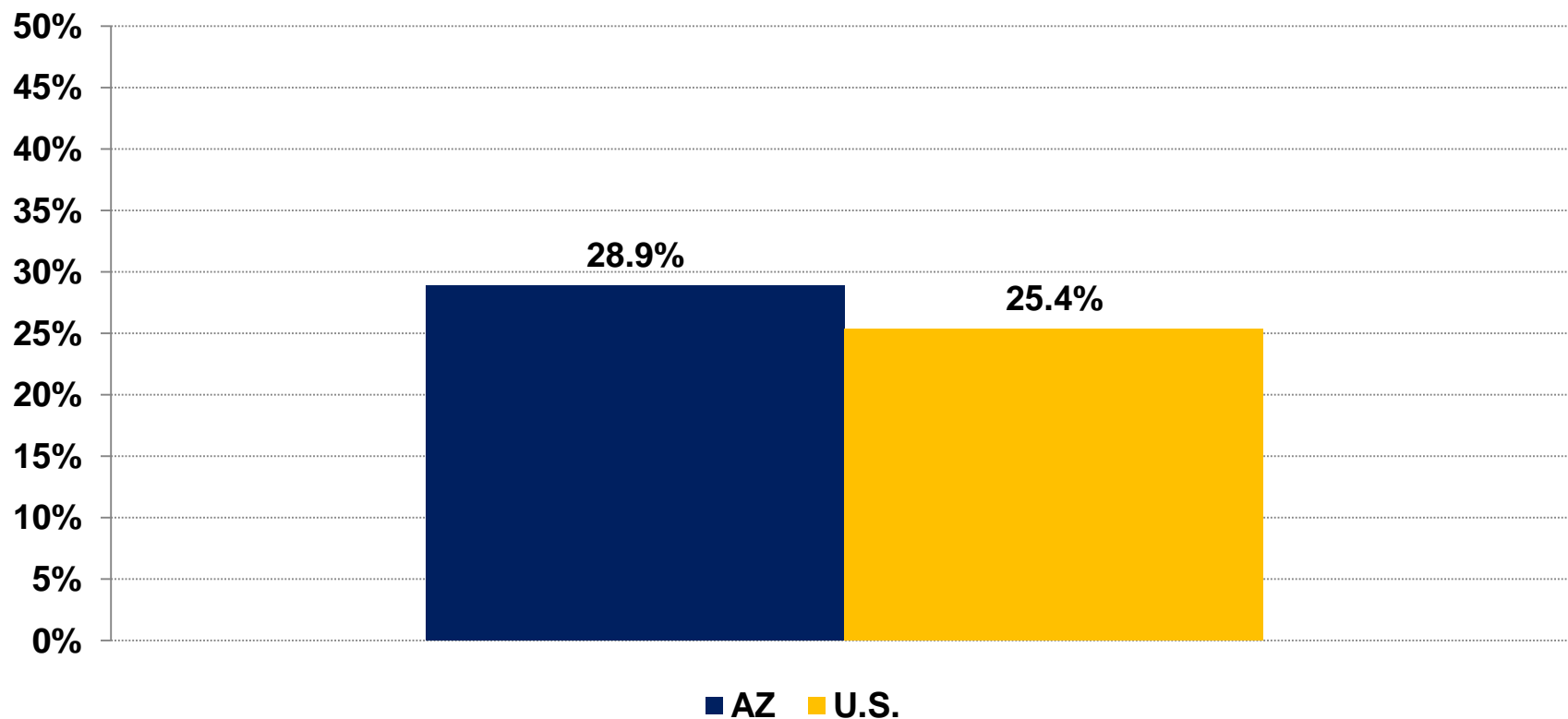
Reported Congenital Syphilis Cases and Case Rates per 100,000 Live Births by Birth Year, Arizona and United States 2003-2008



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## Breastfeeding at 6-Months for Infants in Low Income Families Arizona (2008) & U.S. (2007)

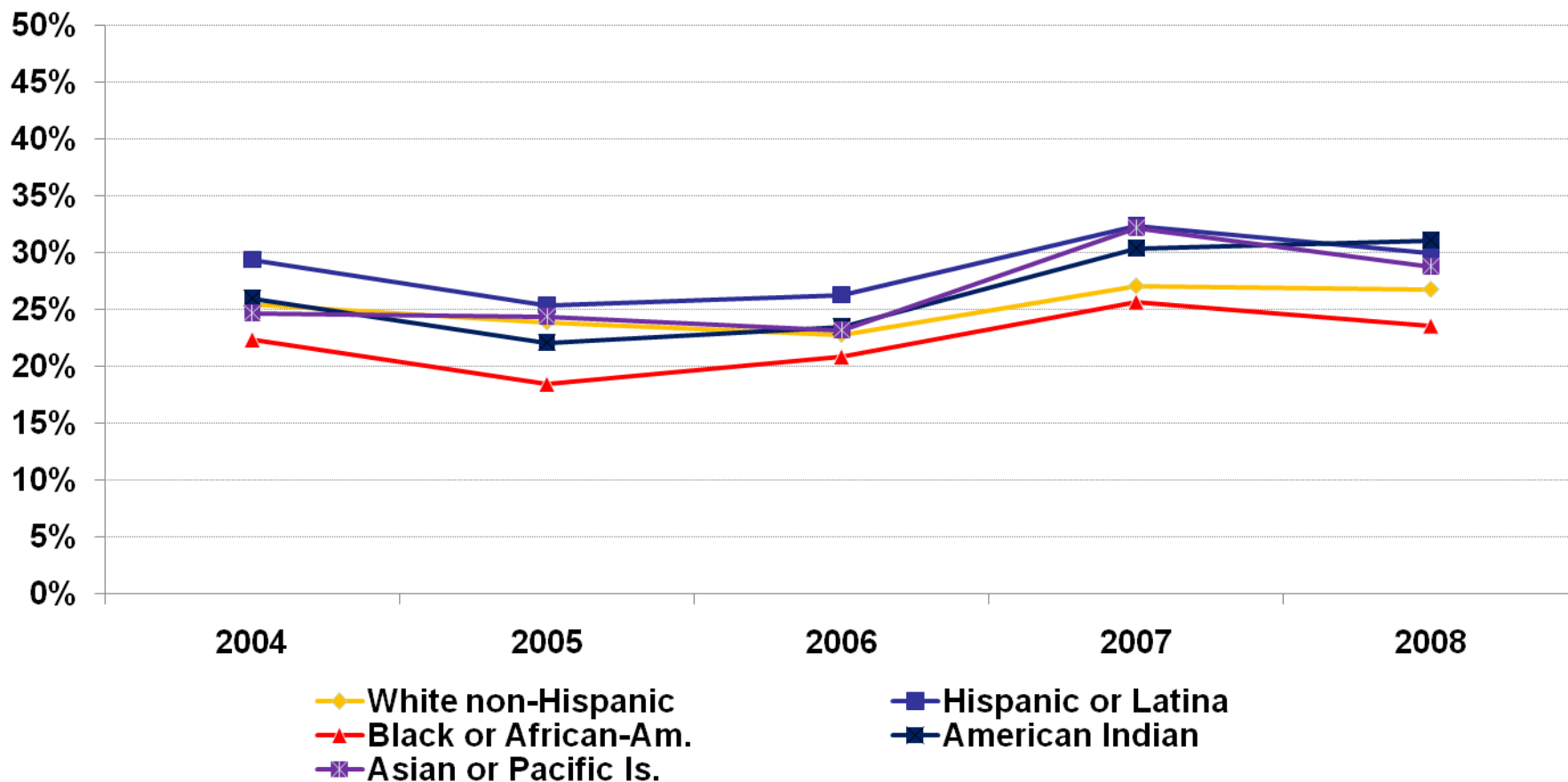


Source: Pediatric Nutrition Surveillance System, 2008

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## Breastfeeding at 6-Months for Infants in Low Income Families Arizona, 2004-2008



Source: Pediatric Nutrition Surveillance System, 2008

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# Women of Reproductive Age

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# **Women of Reproductive Age**

## ***Health Status and Well-Being Indicators***

Examples include;

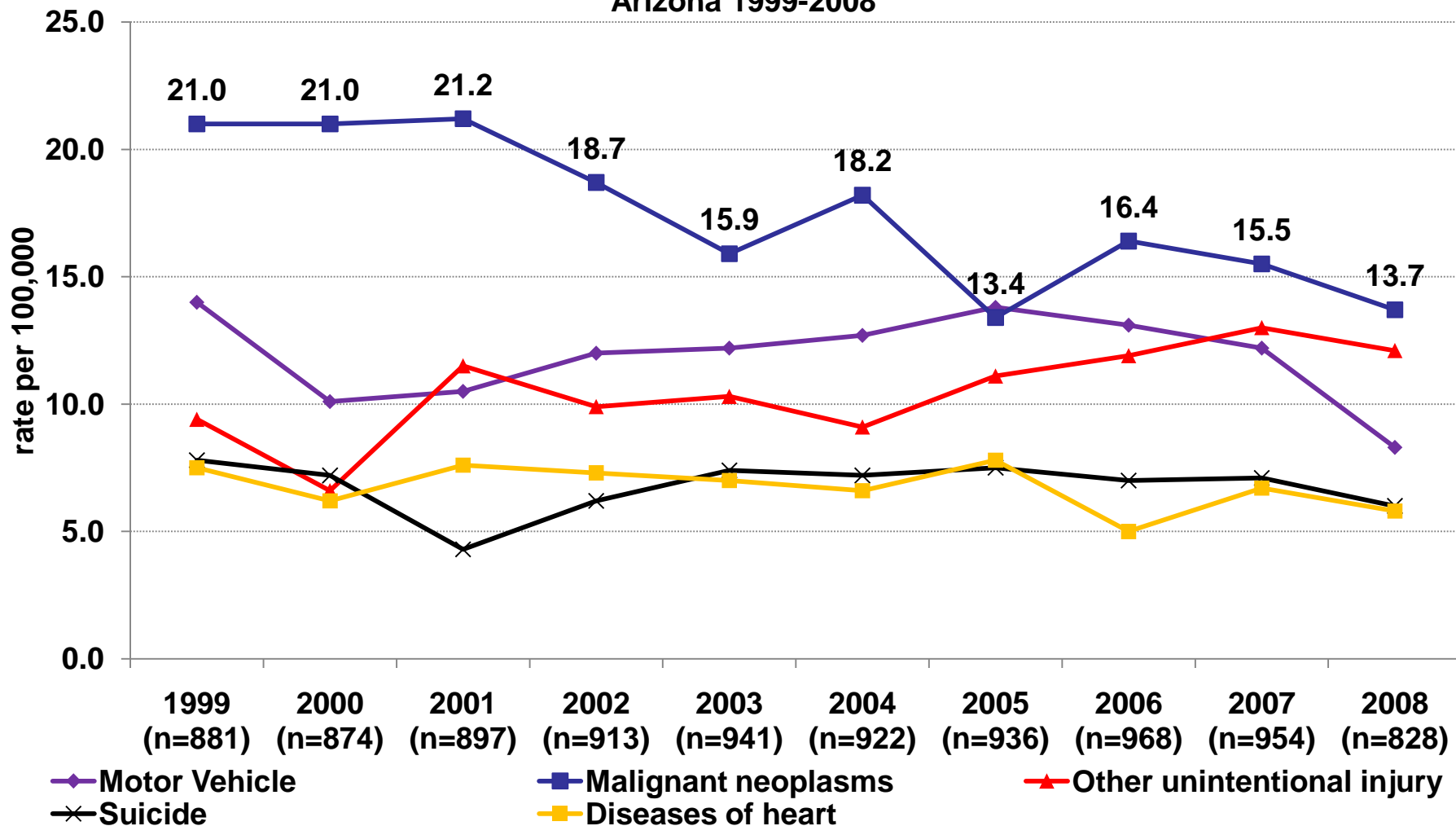
- 1) Mortality
- 2) Mental health
- 3) STDs

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# Mortality Rates for the Leading Causes of Death Among Women Age 20-44 Years, Arizona 1999-2008

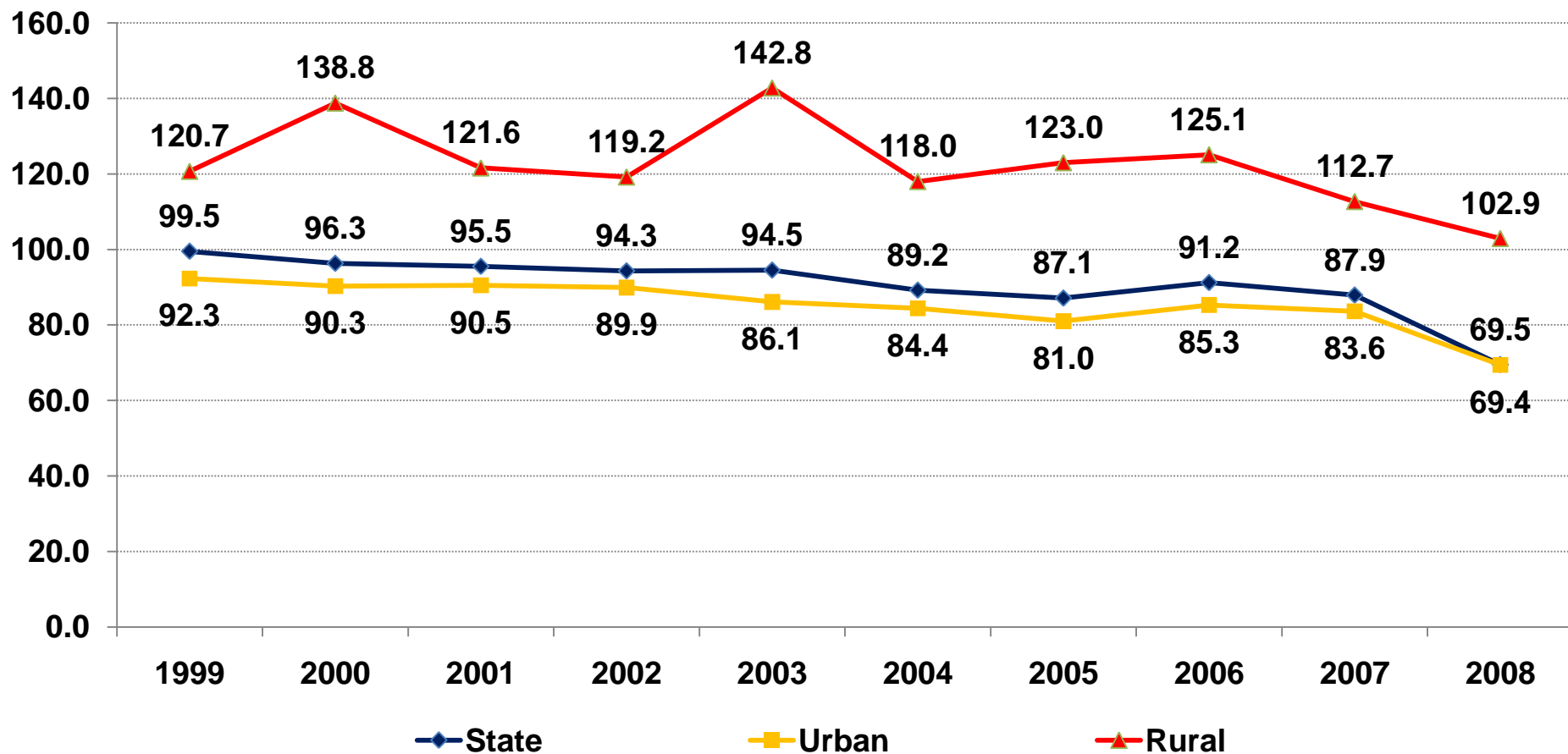


Source: Arizona Vital Statistics, 1999-2008

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# Mortality Rate for Leading Causes of Death Among Women Age 20-44 Years by Urban and Rural Residence, Arizona 1999-2008

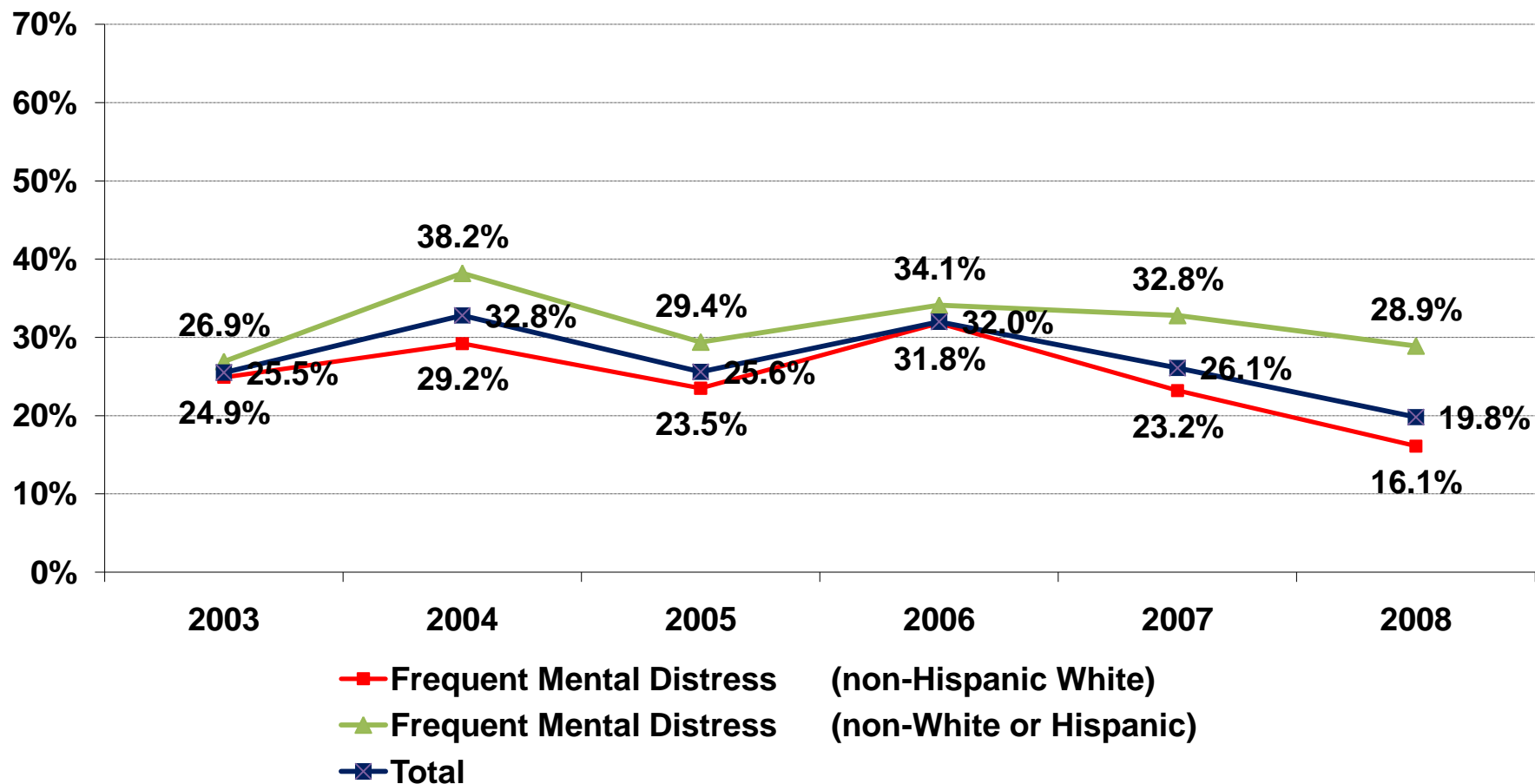


Source: Arizona Vital Statistics, 1999-2008

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## Frequent Mental Distress for Women Age 18 thru 44 Years by Race/Ethnicity, Arizona 2003-2008

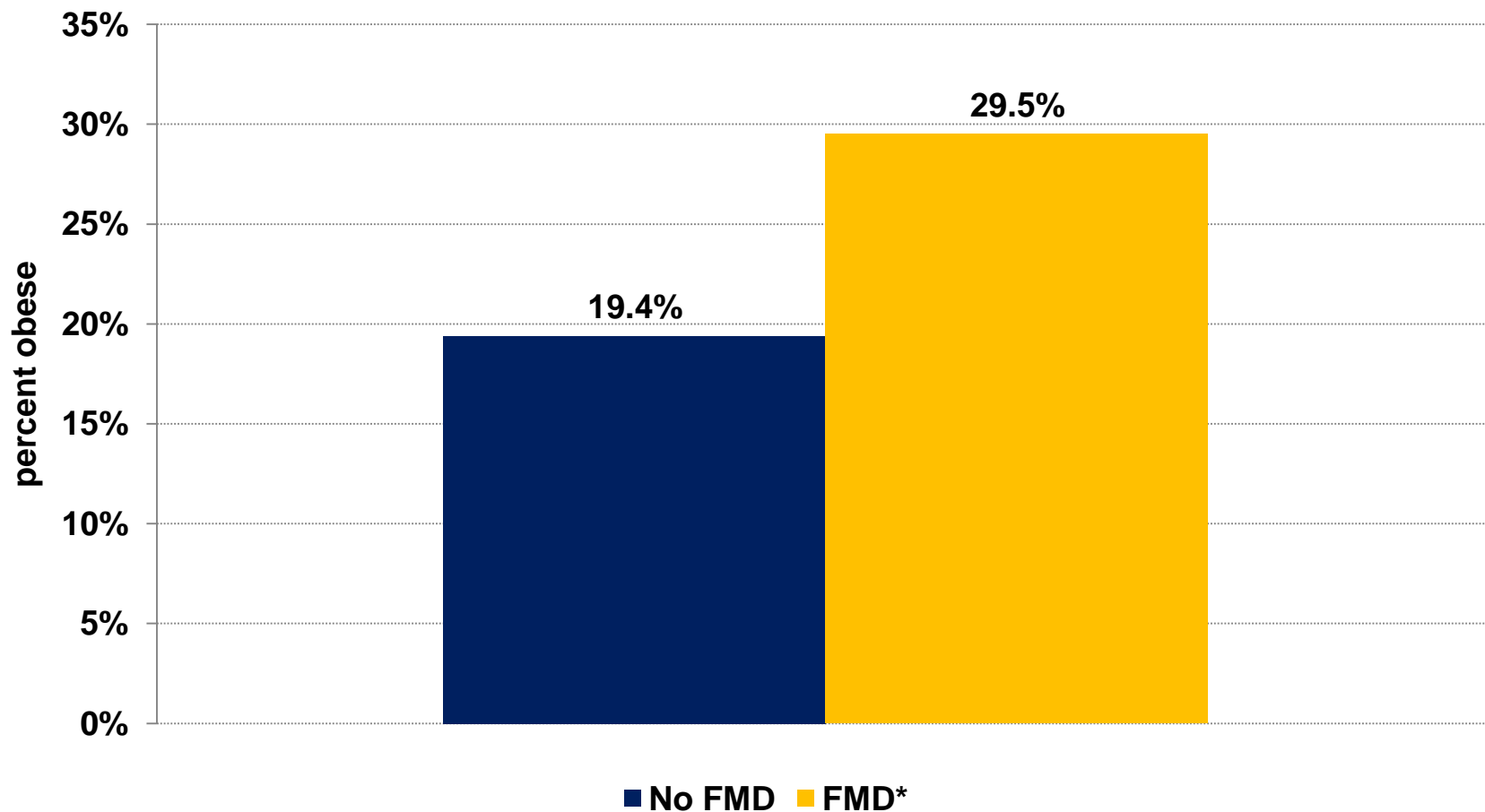


Source: Arizona BRFSS, 2003-2008

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## Obesity Prevalence Among Females Age 18-44 Years With and Without Frequent Mental Distress, Arizona 2003-2008

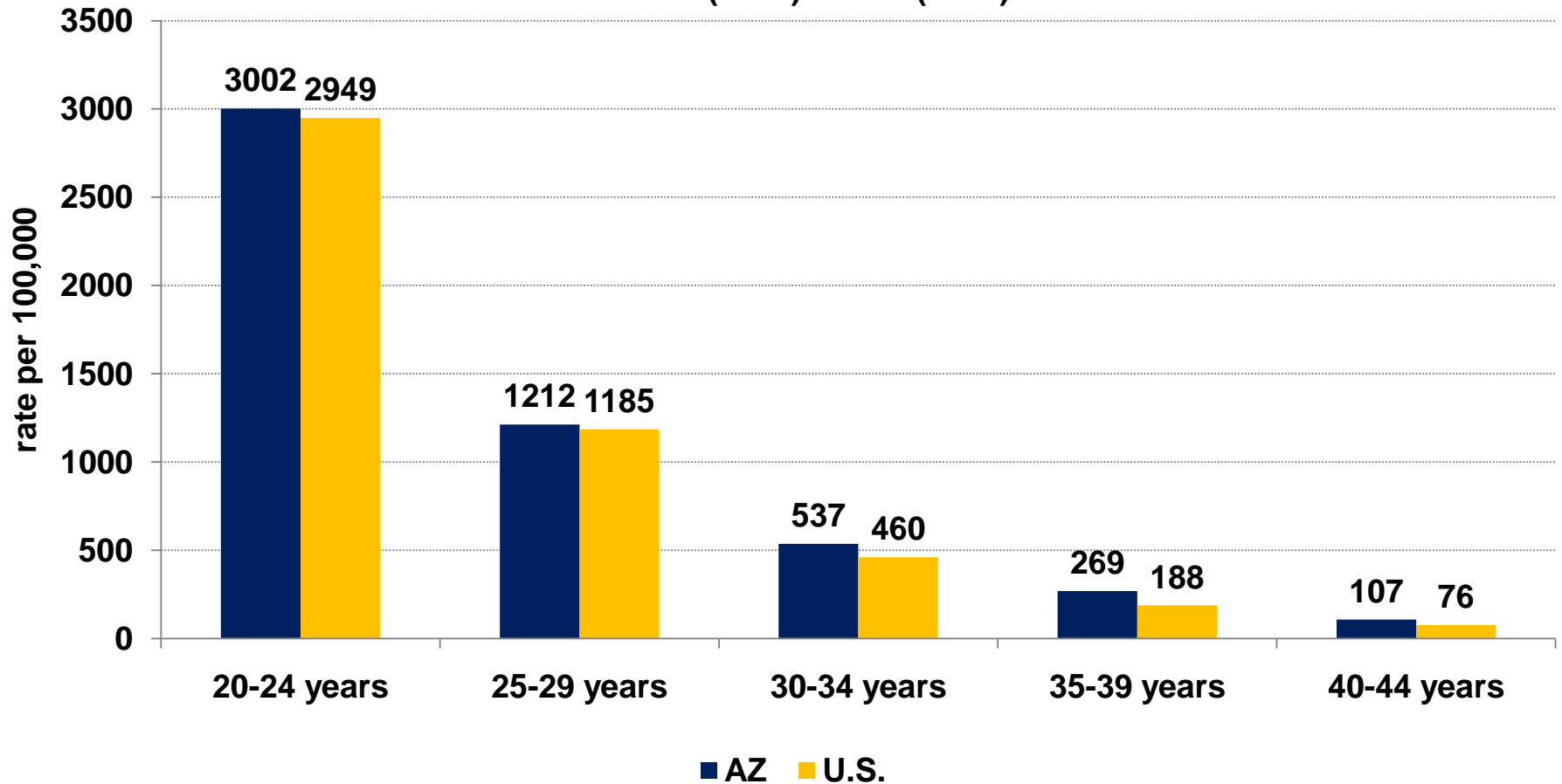


\*significant difference at  $\alpha=0.05$   
Source: Arizona BRFSS, 2003-2008

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## Incidence of Chlamydia among Females by Age Group Arizona (2008) & U.S. (2007)

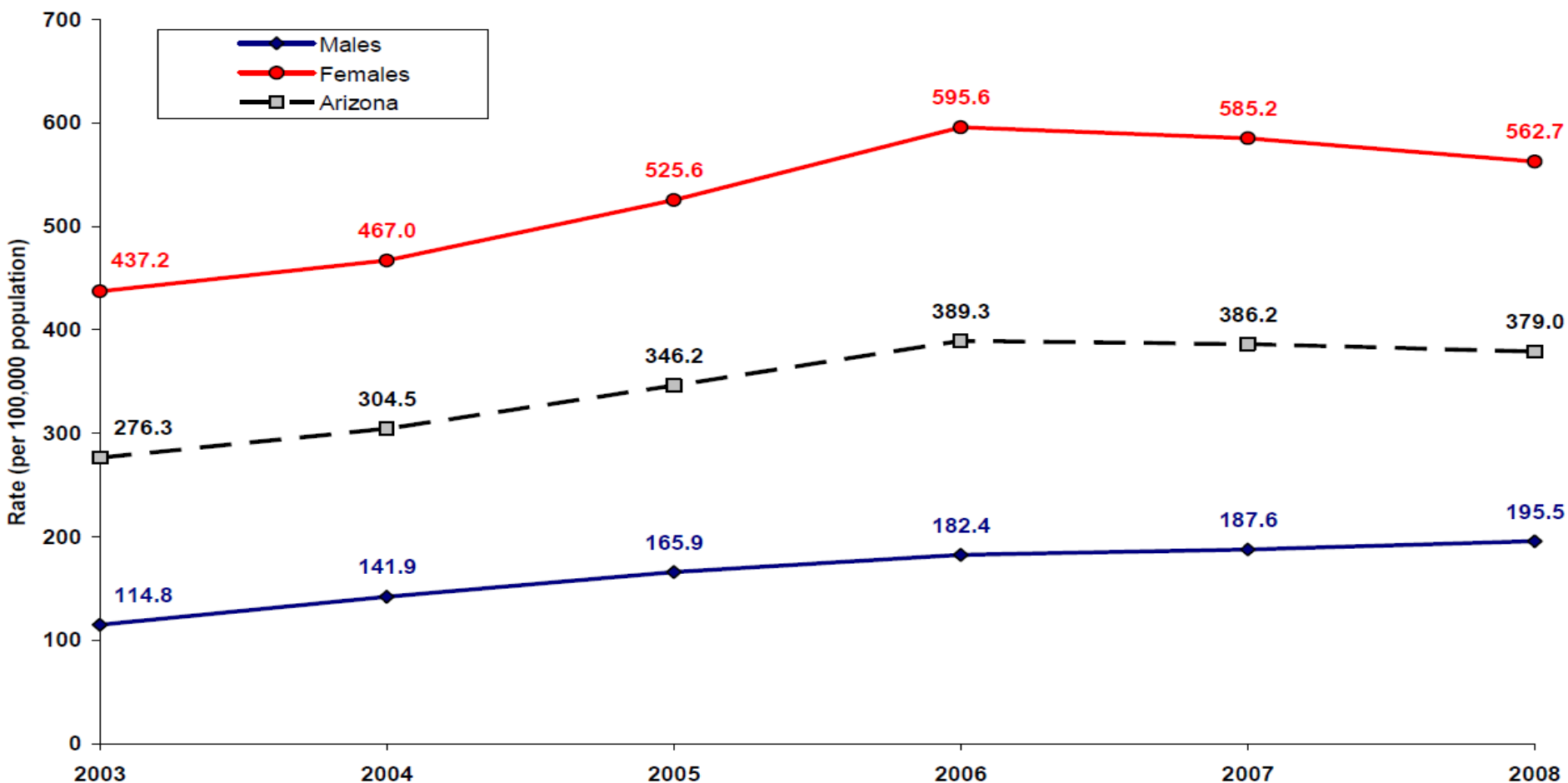


Source: Arizona Vital Statistics and the CDC, 2008

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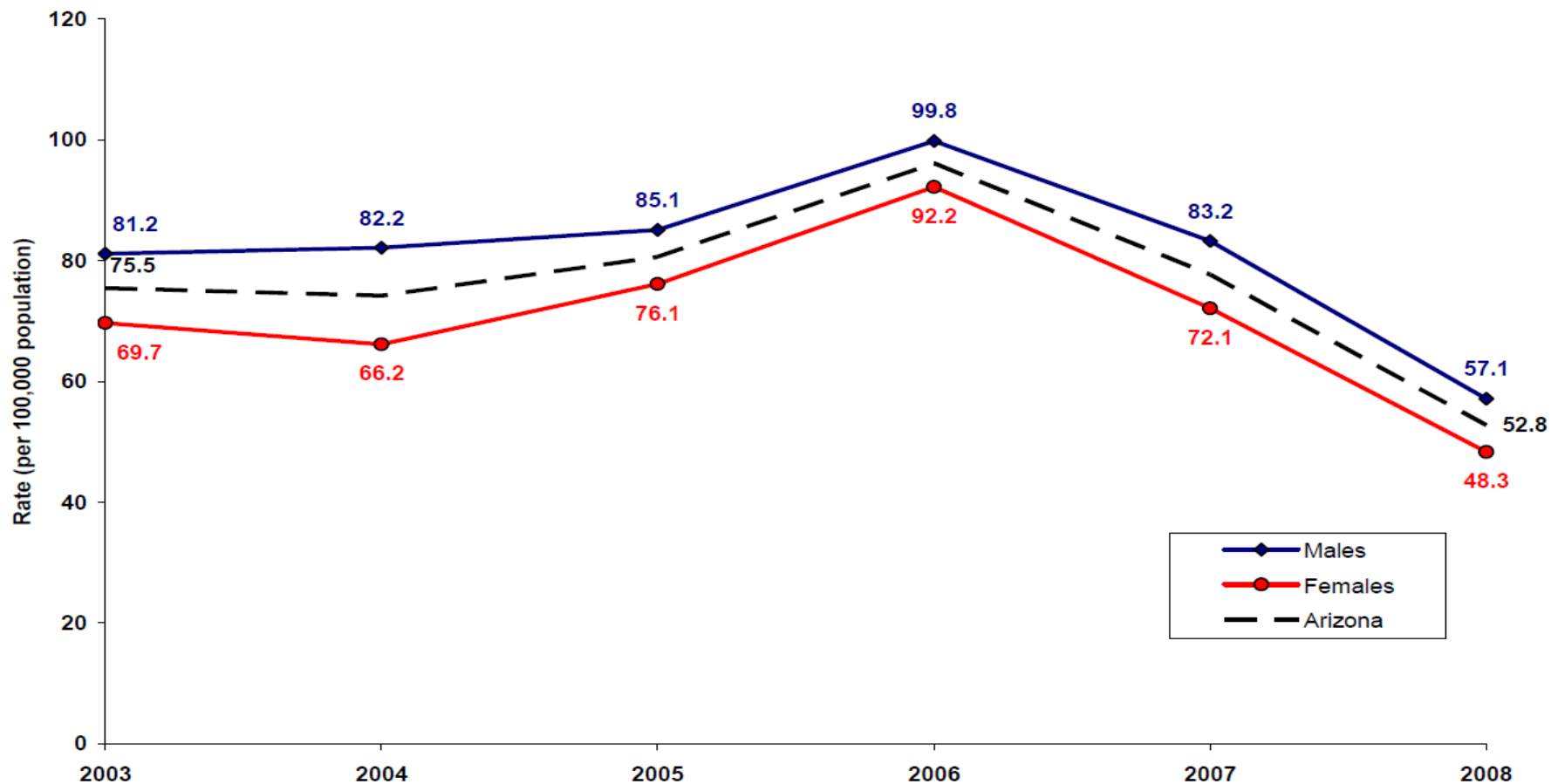
# Reported Chlamydia Case Rates per 100,000 Population by Gender Arizona 2003-2008



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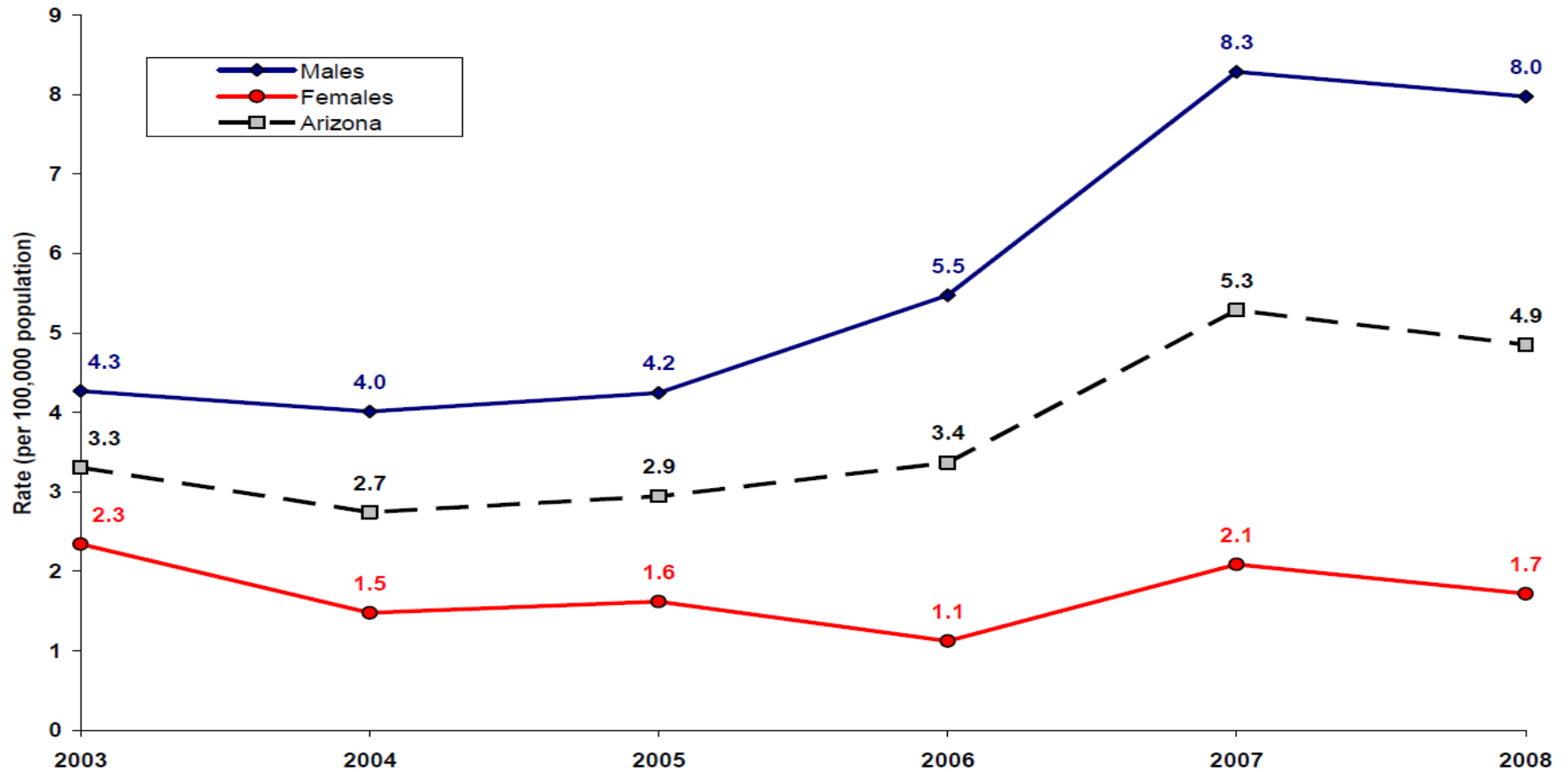
# Reported Gonorrhea Case Rates per 100,000 Population by Gender Arizona 2003-2008



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Reported Primary and Secondary Syphilis Case Rates per 100,000 Population by Gender, Arizona 2003-2008

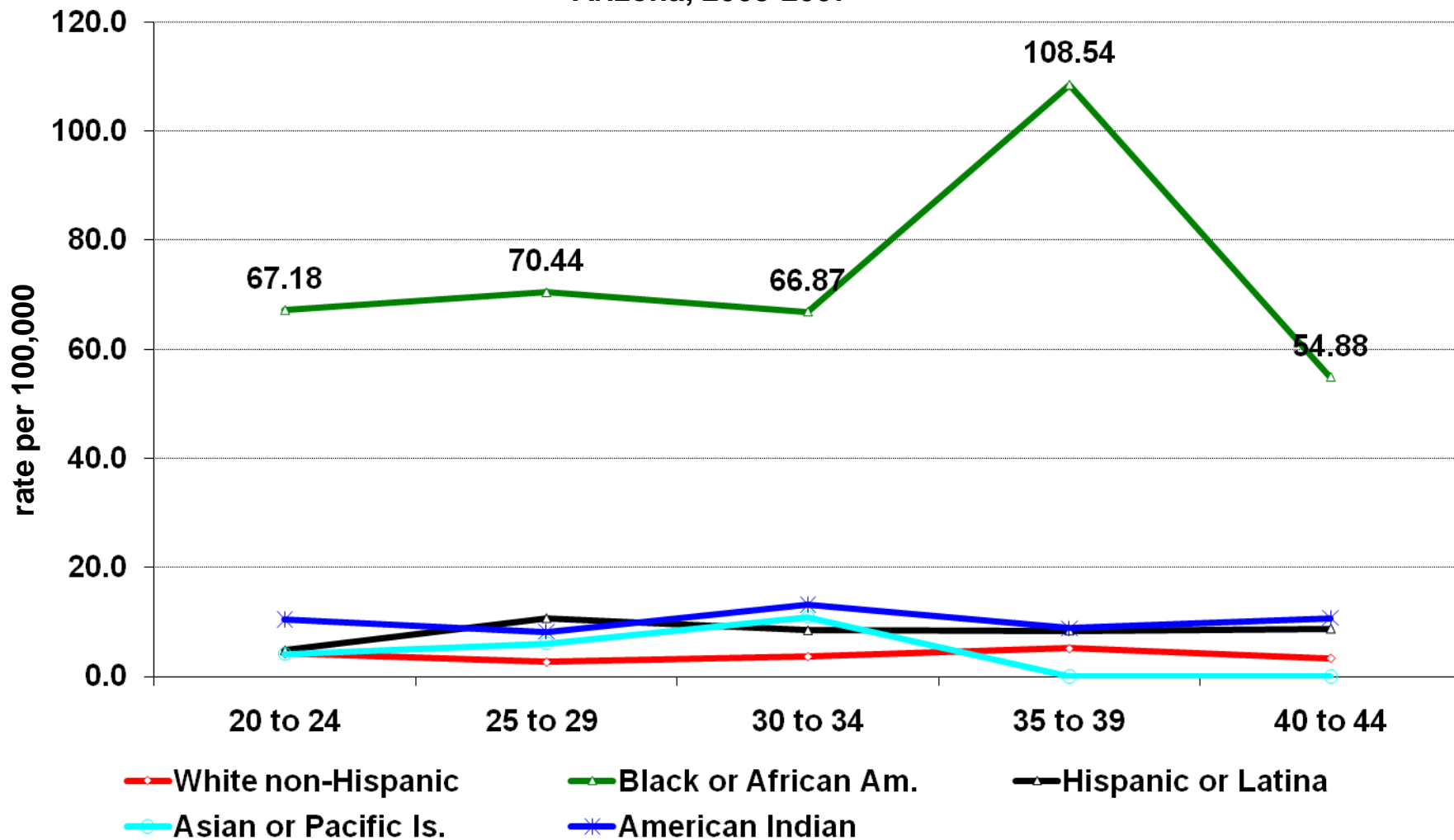


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# HIV/AIDS Rate By Age at Emergent Infection Among Women by Race/Ethnicity Arizona, 2003-2007



Source: Arizona HIV/AIDS, 2008

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# **Women of Reproductive Age**

## ***Health Determinants, Risk and Protective Factors***

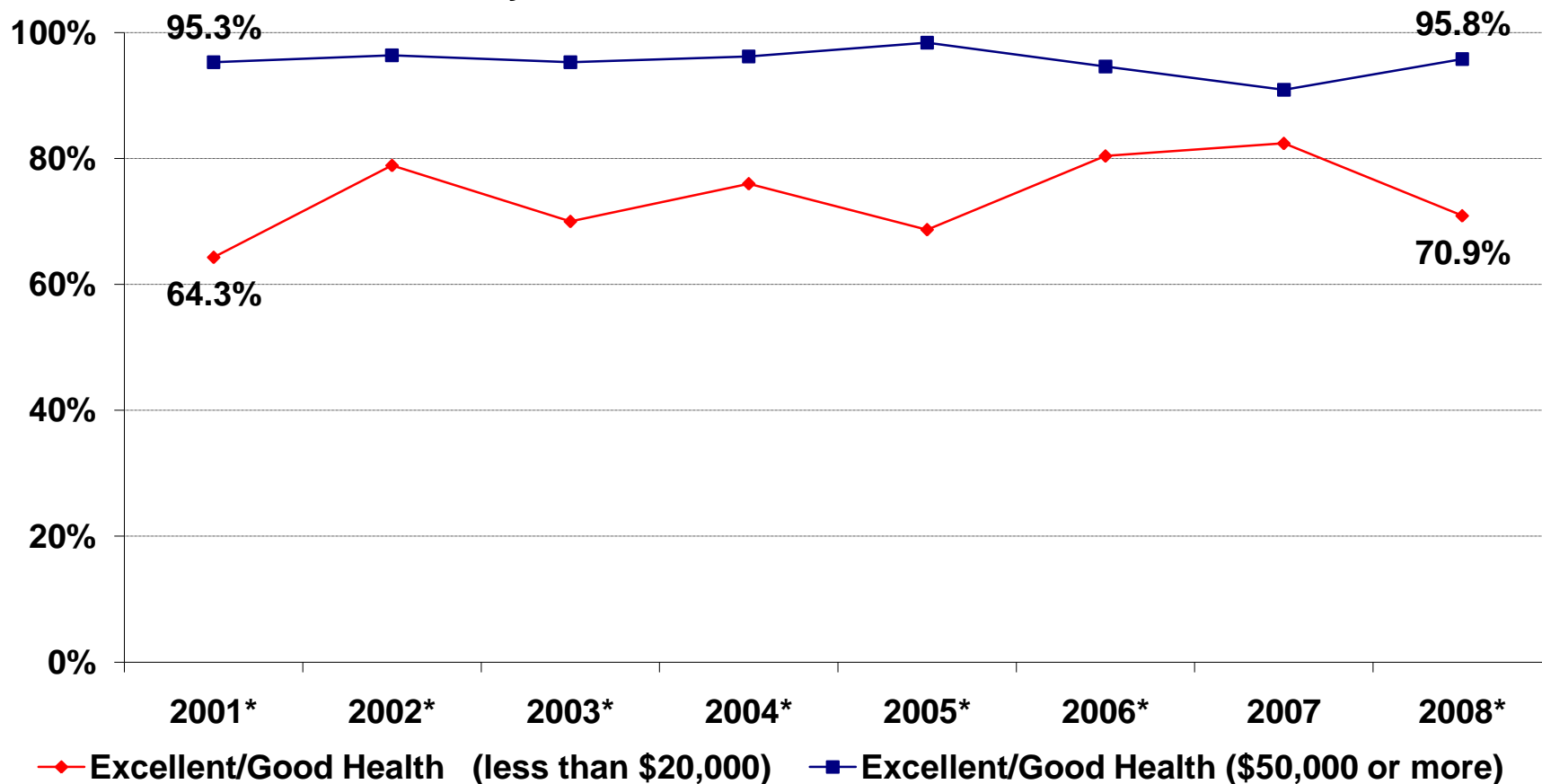
Examples include;

- 1) General Health/Obesity
- 2) Folic Acid
- 3) Smoking
- 4) Violence

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## Percent of Females Age 18-44 Years Self-Reported Health Status by Household Income Level, Arizona 2001-2008

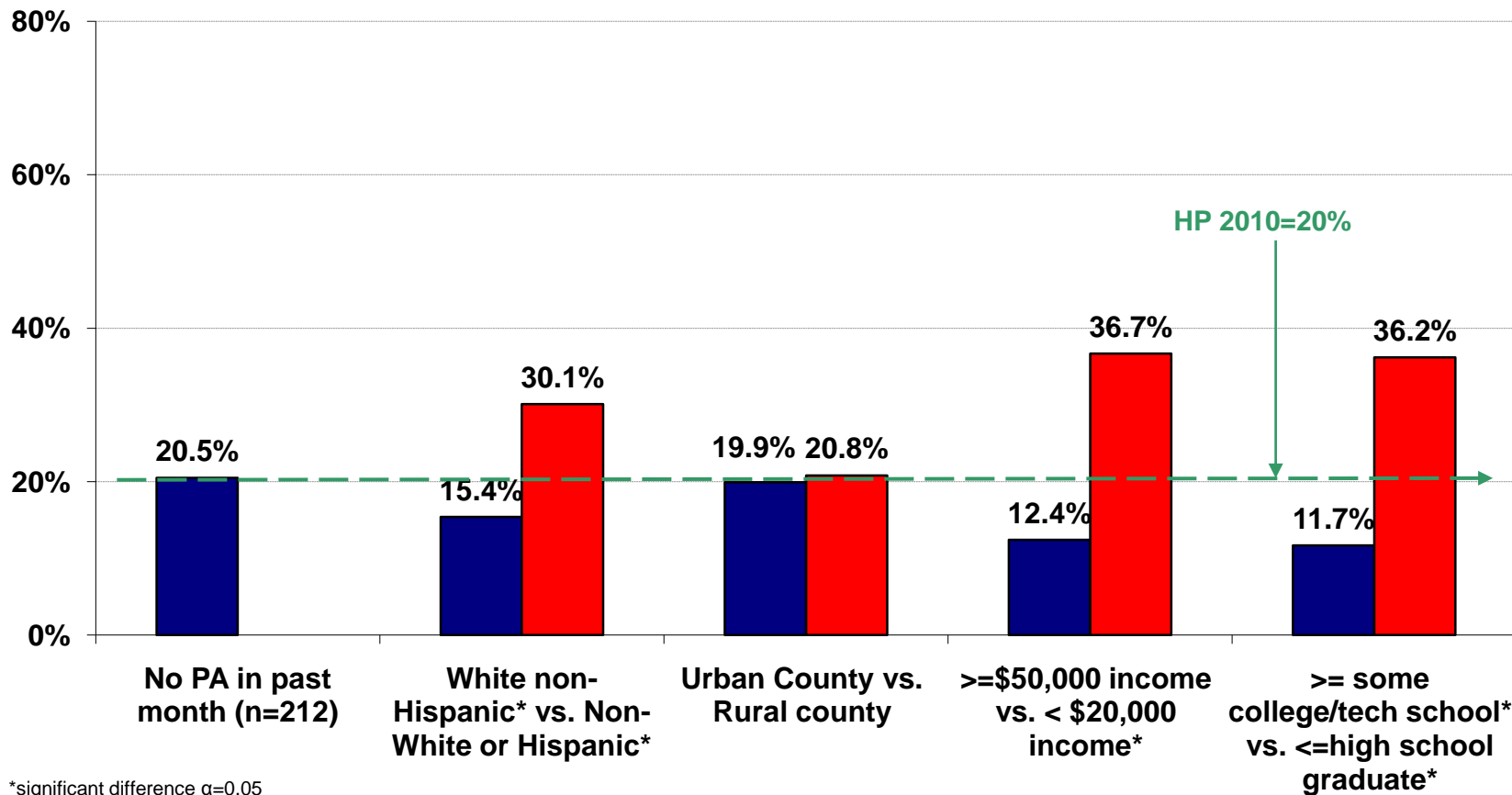


\*significant difference at  $\alpha=0.05$ . Percentages weighted to population  
Source: Arizona BRFSS, 2001-2008

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## Percent of Women Aged 18-44 Reporting No Leisure Time Physical Activity in Past 30 Days, Arizona 2008



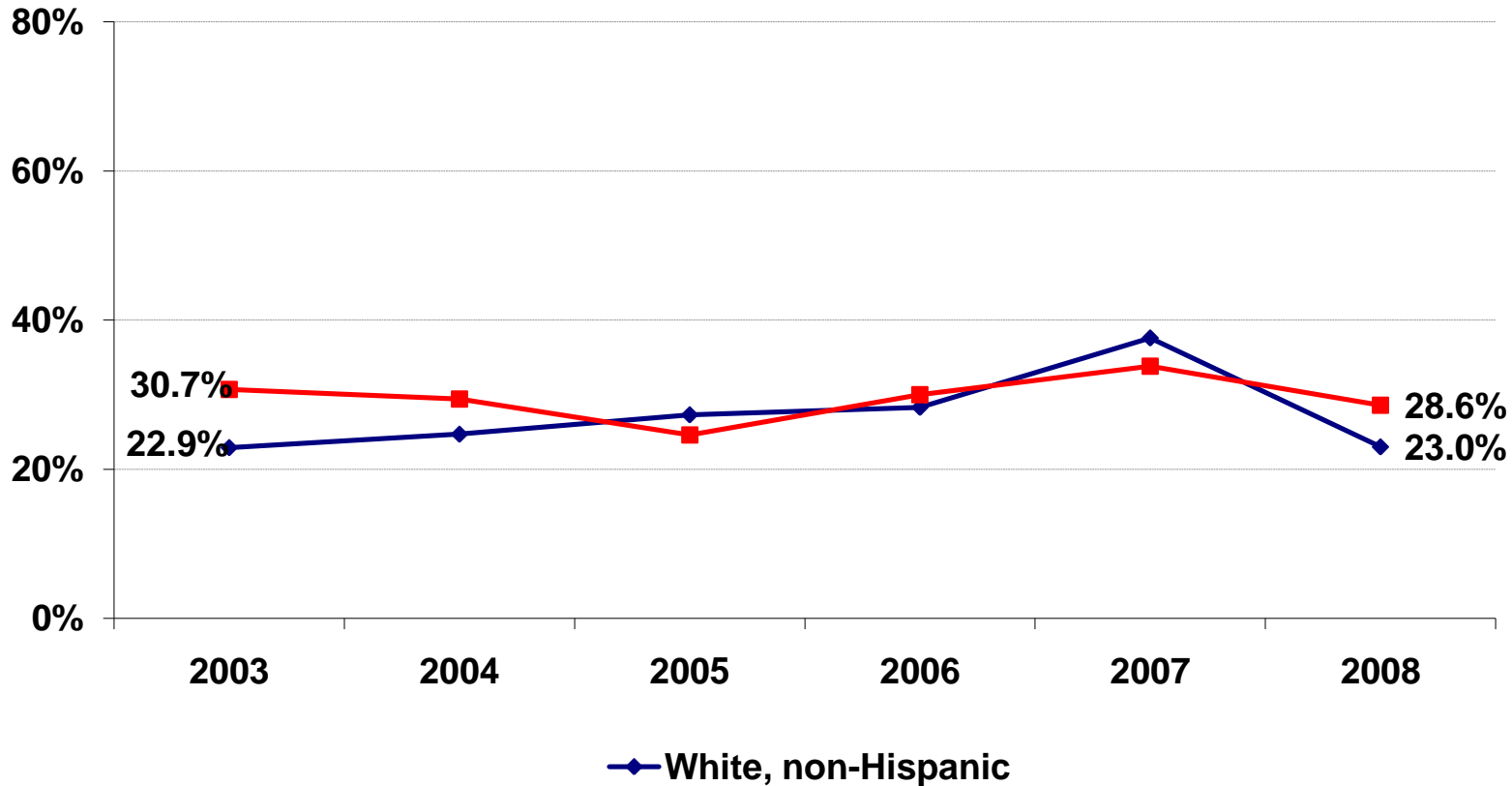
\*significant difference  $\alpha=0.05$

Source: Arizona BRFSS, 2008 (percentages weighted to population)

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# Percent of Women Age 18-44 Years Eating "5-A-Day" by Race/Ethnicity Arizona 2003-2008

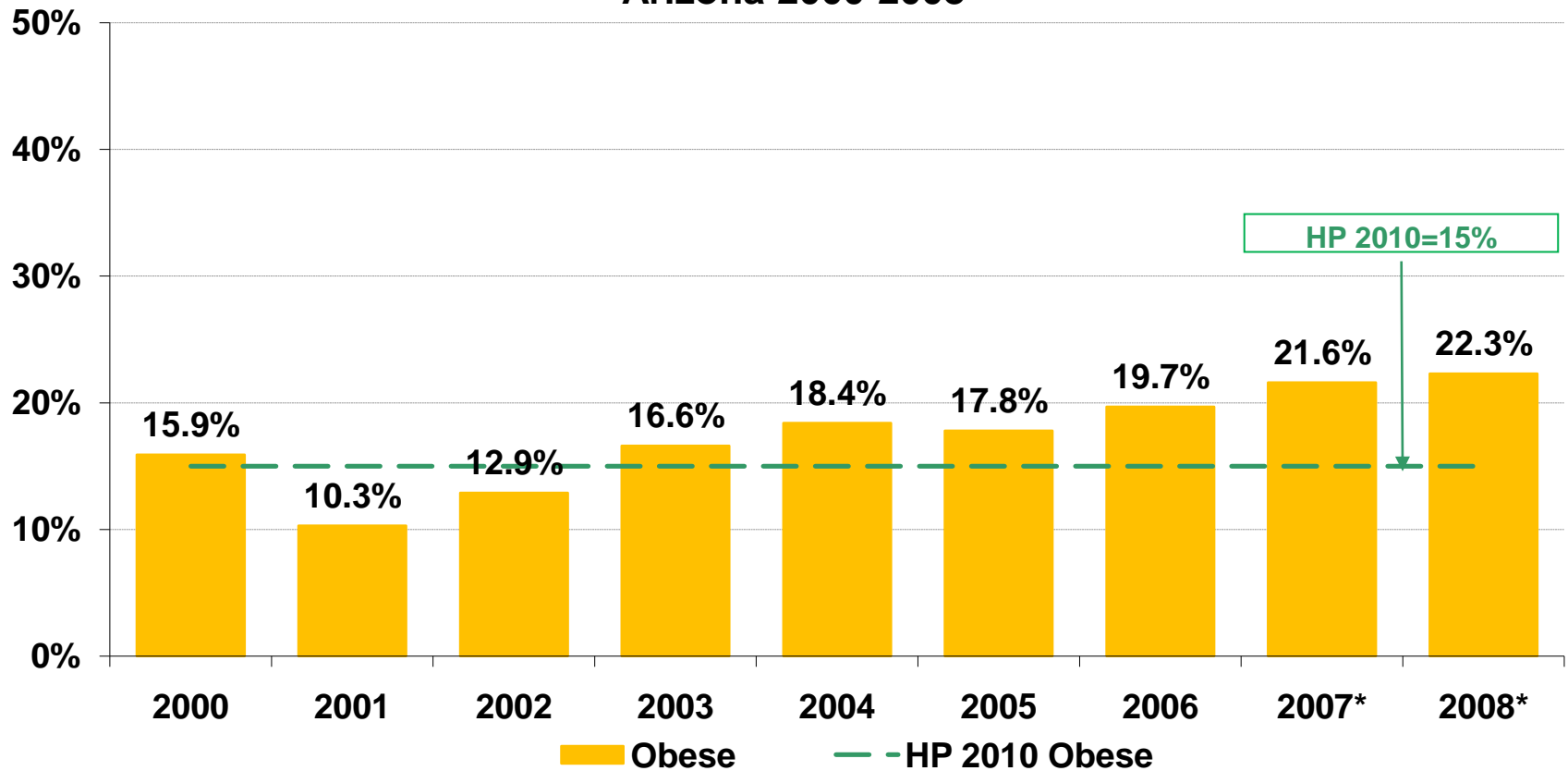


Source: Arizona BRFSS, 2003-2008 (percentages weighted to population)

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## Prevalence of Obesity Women Aged 18 thru 44 Arizona 2000-2008

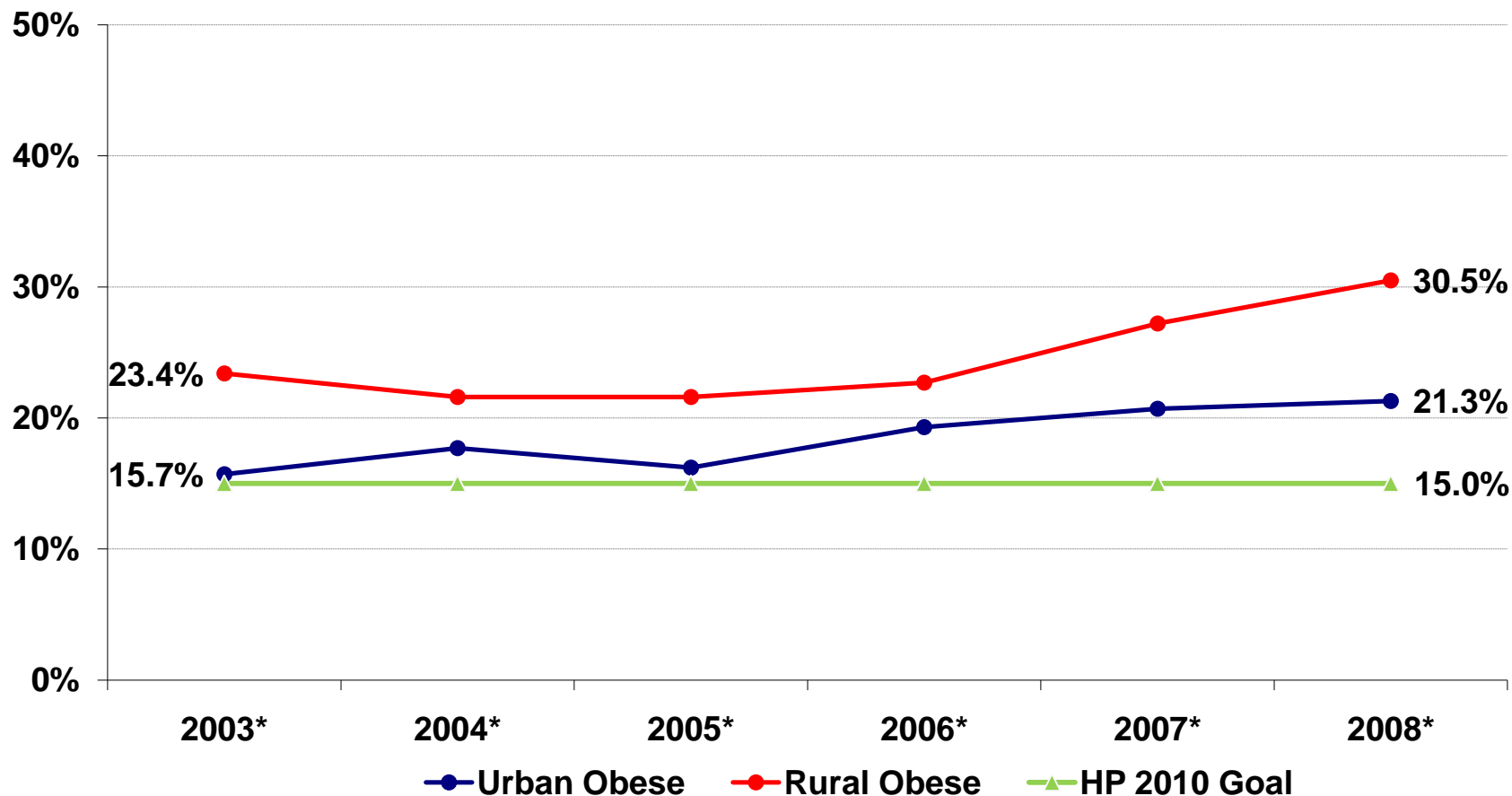


\*significant difference between point estimate and HP 2010 Goal  
Source: Arizona BRFSS, 2000-2008 (percentages weighted to population)

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## Percent of Females Aged 18 thru 44 who are Obese by Urban & Rural Regions, Arizona 2000-2008



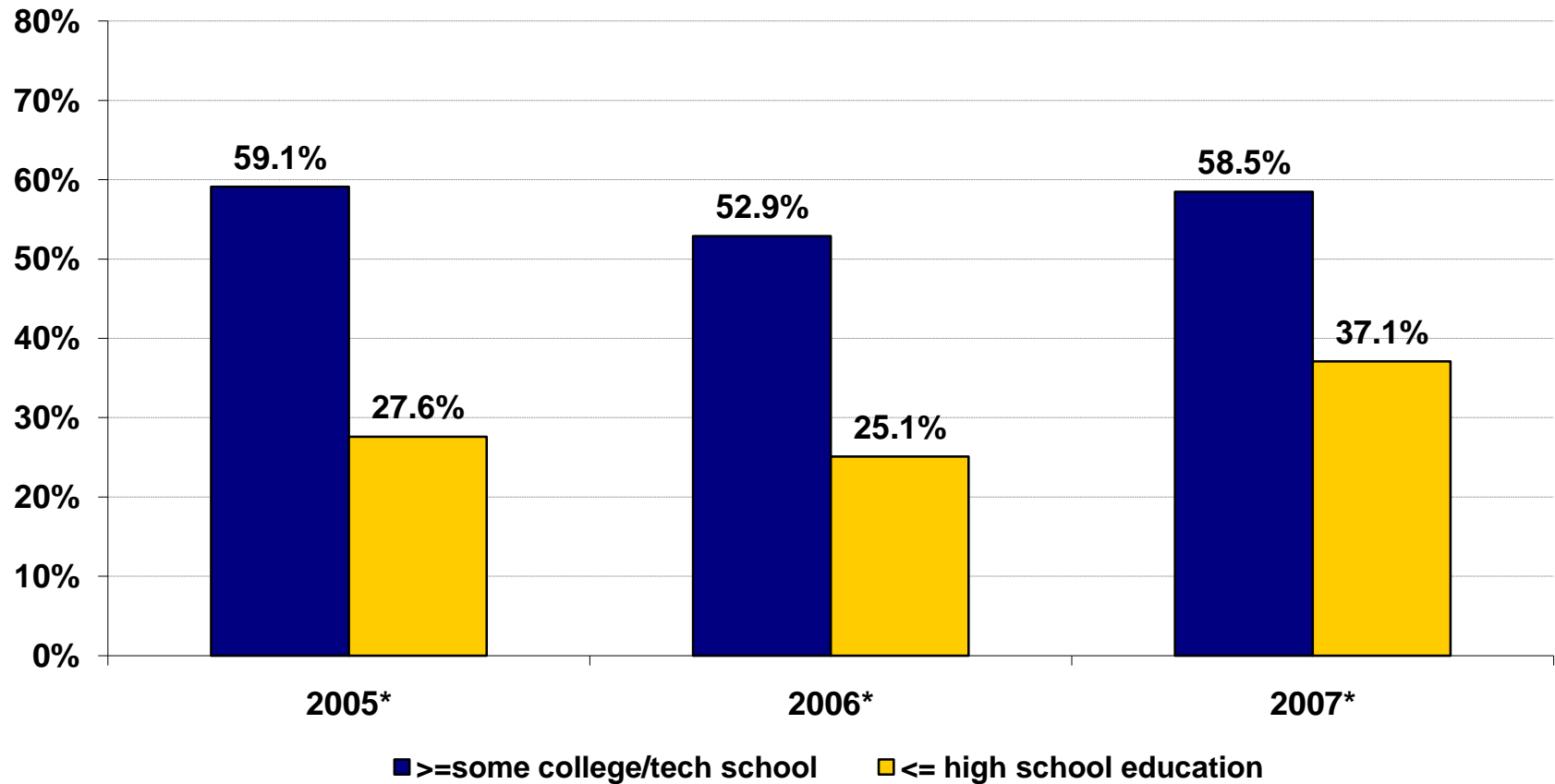
\*significant difference between rural obese estimate and HP 2010 Goal

Source: Arizona BRFSS, 2000-2008

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## Percent of Women Age 18-44 Years Consuming a Vitamin or Supplement with Folic Acid by Level of Education, Arizona 2005-2007



\*significant difference ( $p < 0.05$ )

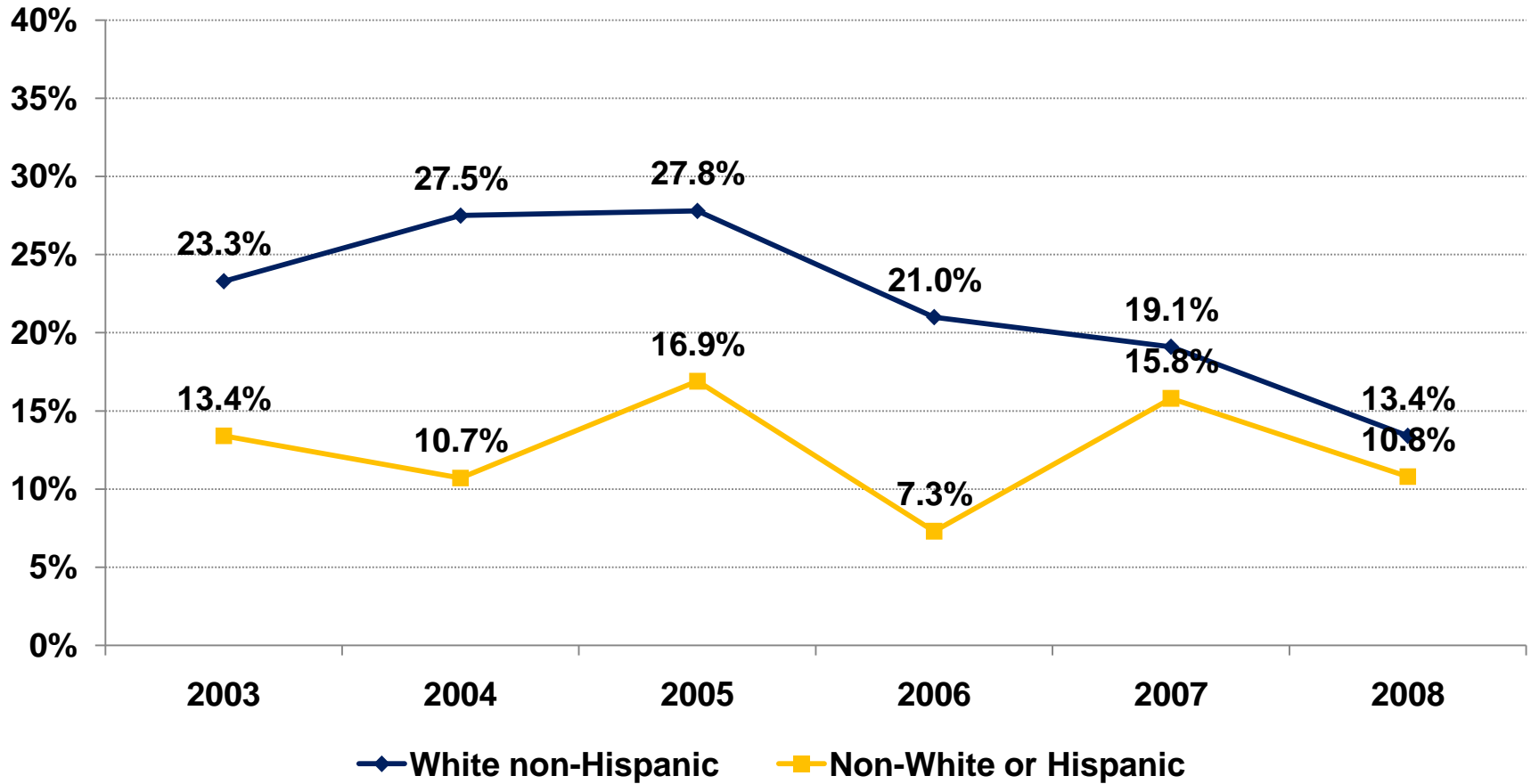
Source: Arizona BRFSS 2005-2007 (percentages weighted to population)

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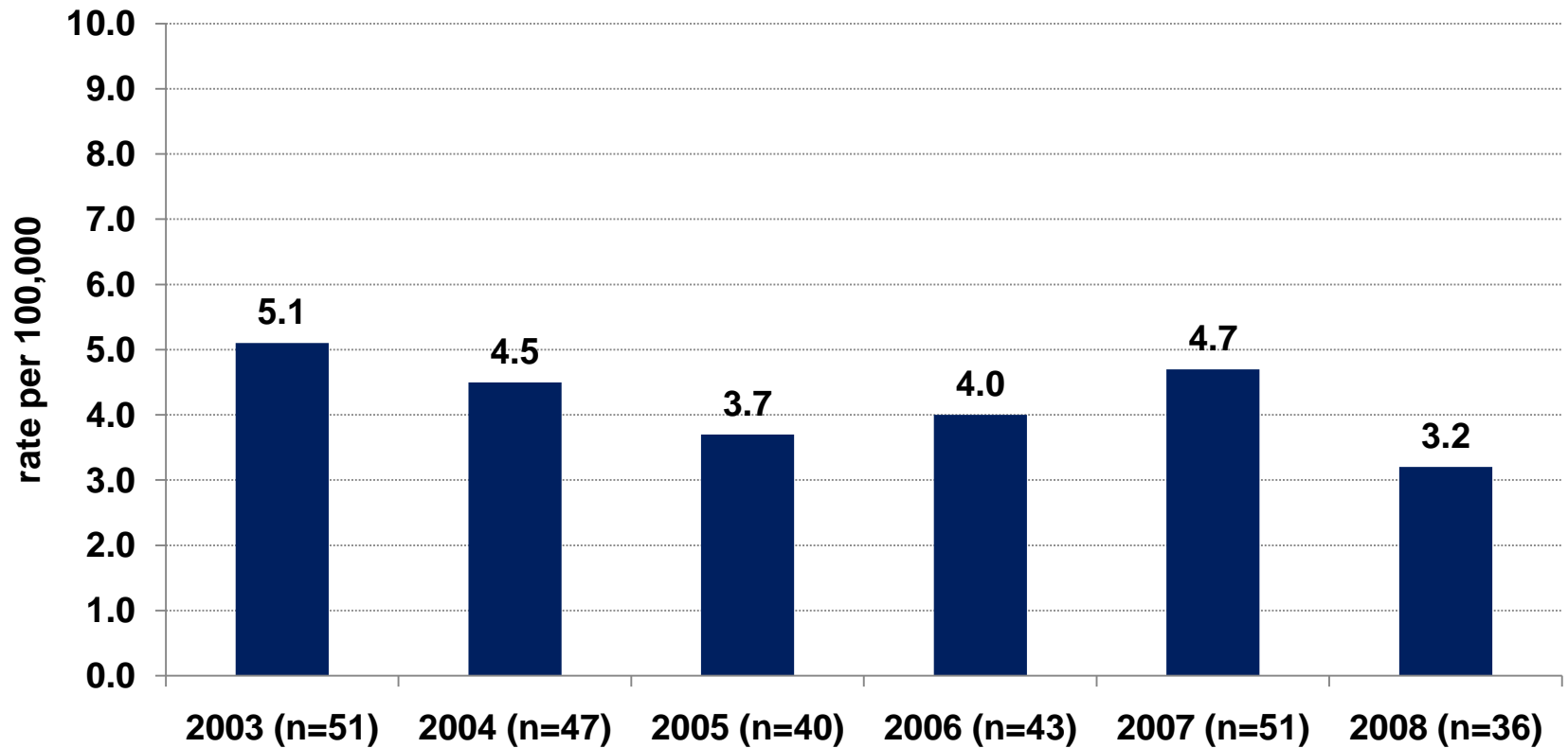
# Current Smokers among Women Age 18-44 Years by Race/Ethnicity Arizona 2003-2008



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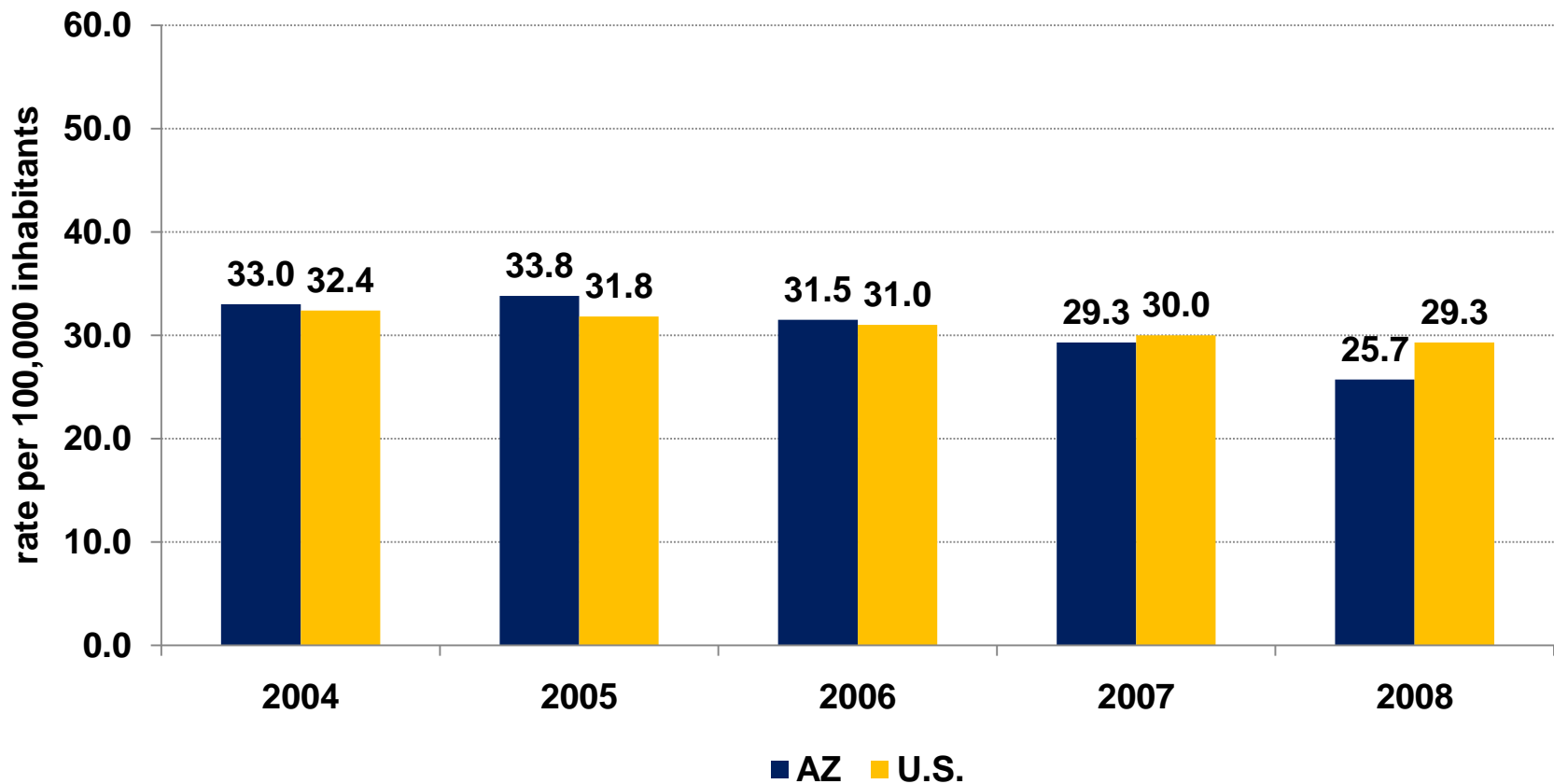
# Rate of Homicide for Female Victims Age 20-44 Years Arizona 2003-2008



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## Rate of Forcible Rape Against Females of All Ages Arizona & U.S. 2004-2008



Source: FBI UCR, 2004-2008

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# Community Survey

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## Community Survey

### Adequacy of Services Provided in Your Community for Selected MCH Populations

Children and Teenagers	Very well or sometimes well	Not well or never
Safe places to play and exercise (n=764)	54.8%	45.2%
Reproductive health/family planning (n=717)	54.7%	45.3%
Mental health care (n=732)	45.0%	55.1%
Drug and alcohol treatment (n=720)	43.8%	56.3%
Teen driver and safety training (n=665)	39.9%	60.2%
After school activities for teens (n=719)	39.9%	60.2%

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## Community Survey

### Adequacy of Services Provided in Your Community for Selected MCH Populations

<i>Pregnant Women and Infants</i>	Very well or sometimes well	Not well or never
Access to hospital with delivery facilities (n=757)	<b>79.9%</b>	<b>20.1%</b>
Birth education classes (n=719)	<b>75.2%</b>	<b>24.8%</b>
Breastfeeding education (n=746)	<b>72.0%</b>	<b>28.0%</b>
Dental care (n=738)	<b>37.7%</b>	<b>62.3%</b>
Affordable transportation to access health care (n=711)	<b>37.7%</b>	<b>62.3%</b>
Support for breastfeeding at work (n=712)	<b>31.7%</b>	<b>68.3%</b>

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## Community Survey

### Adequacy of Services Provided in Your Community for Selected MCH Populations

<i>Women of Reproductive Age (15-44 years)</i>	Very well or sometimes well	Not well or never
Reproductive health and family planning (n=754)	72.3%	27.7%
Affordable and healthy food for people using food stamps (n=741)	67.3%	32.7%
Shelters for domestic violence victims (n=742)	65.2%	34.7%
Mental health treatment (n=727)	47.5%	52.5%
Affordable health care (n=755)	43.6%	56.4%
Dental care (n=735)	42.5%	57.6%

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